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Volume II
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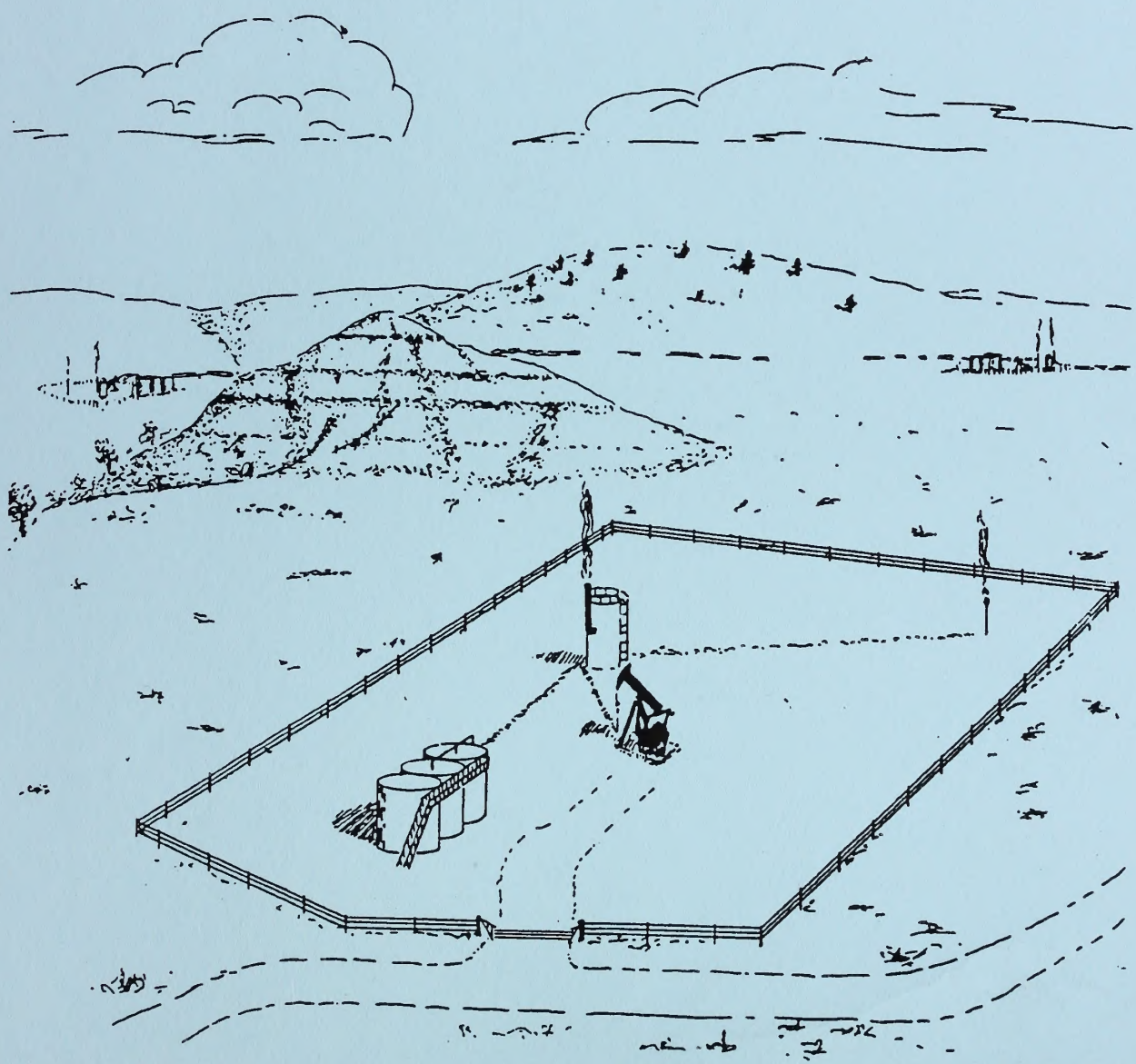
APPENDICES

WILLISTON BASIN REGIONAL AIR QUALITY STUDY



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WILLISTON BASIN REGIONAL AIR QUALITY STUDY

VOLUME II APPENDICES

Final Report, June 1990

(Cooperative Agreement MT950-CA7-005)

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APPENDIX A

Ranking of Oil and Gas Fields for Study Field Selection Procedure (Three Computer Lists)

List 1

Fields Ranked on the Basis of Total Field SO_2 Emissions

ENCLOSURE 1

Page 1

Starting Month (YYMM): 8611
Ending Month (YYMM): 8704

Field-Name	Field SO_2 Emissions (Tons)	Number of Wells
Little Knife	676.9	29
Smith	396.8	5
Lone Butte	358.3	9
Elkhorn Ranch	280.3	53
Rough Rider	222.8	39
Big Stick	202.6	44
Scairt Woman	184.0	2
Oakdale	181.9	2
Stanley	167.5	15
Lost Bridge	155.8	5
Anderson Coulee	137.2	19
Bear Den	123.5	4
Tree Top	122.7	39
Devils Pass	109.5	19
Flaxton	102.5	41
Stoneview	94.6	8
Charlson	87.4	17
T.R.	87.3	50
Mondak	76.0	71
Sherwood	71.4	12
Union Center	57.0	7
Buckhorn	55.3	20
Grassy Butte	53.2	7
West Tioga	50.3	3
Fryburg	48.9	33
East Fork	48.1	16
Spotted Horn	47.1	1
Crooked Creek	44.6	1
Morgan Draw	43.2	3
Dollar Joe	42.9	1
Dublin	42.1	2
Hamlet	42.0	8
Bennett Creek	41.7	1
Whiskey Joe	41.6	30
Northeast Foothills	41.2	62
Black Slough	40.4	8
Capa	38.4	3
McKinney	34.1	11
Croff	33.5	3
Pleasant	29.9	12
South Coteau	29.8	7
Ice Caves	29.4	2
Squaw Creek	29.3	1

ENCLOSURE 1

Starting Month (YYMM): 8611
Ending Month (YYMM): 8704

Field-Name	Field SO_2 Emissions (Tons)	Number of Wells
Lake Darling	29.1	4
Rival	28.3	10
Tepee Butte	27.6	1
Trailside	24.7	1
Four Eyes	22.9	8
Buffalo Wallow	22.5	8
Dale	21.9	4
Glass Bluff	21.5	44
Green Lake	21.4	1
Battleview	21.2	4
Bowbells	20.9	5
McGregor	19.6	10
Woburn	19.3	16
Indian Hill	19.0	53
Dobson Butte	18.4	2
Hay Draw	18.2	3
Kimberly	18.1	3
Red Wing Creek	16.8	12
South Bull Moose	16.7	2
White Earth	16.4	1
Camel Butte	15.9	13
Rawson	15.3	10
Minnesota	14.6	1
Square Butte	12.5	8
Catwalk	12.2	16
Patent Gate	11.8	2
Pershing	11.8	2
Elmore	11.3	7
North Fork	11.2	2
North Tioga	11.2	21
East Tioga	11.1	1
Flat Top Butte	11.0	10
Cherry Creek	10.9	3
Hayland	10.4	1
Pleasant Valley	10.3	3
Pleasant Hill	10.1	1
Werner	9.7	2
Squaw Gap	9.3	6
Noraine	9.3	3
Crazy Man Creek	9.3	3
Ragged Butte	8.9	8
Last Chance	8.8	12
Manning	8.7	1

ENCLOSURE 1

Starting Month (YYMM): 8611
Ending Month (YYMM): 8704

Field-Name	Field SO_2 Emissions (Tons)	Number of Wells
Sadler	7.5	1
Camp	7.3	19
Sakakawea	6.8	2
Estes	6.3	4
Pronghorn	6.0	5
Bull Moose	5.9	6
Tolley	5.8	2
Elk	5.4	52
Russian Creek	5.1	3
Snow	5.1	2
Willow Creek	4.9	4
Poker Jim	4.8	7
South Westhope	4.7	36
Avoca	4.2	4
Musta	4.2	2
Tobacco Garden	3.9	2
Foothills	3.8	3
Rosebud	3.8	2
Epping	3.6	1
Blue Buttes	3.6	14
Timber Creek	3.4	1
Poe	3.3	2
Dimmick Lake	3.1	6
Wildrose	3.1	1
Keene	2.7	2
Lignite	2.6	5
Carter	2.6	1
Hardscrabble	2.6	9
Bullsnake	2.2	3
Coteau	2.2	3
Berg	2.2	4
Glenburn	2.0	41
Burning Mine	2.0	2
Nameless	2.0	5
Paulson	1.9	1
Temple	1.9	14
Bluell	1.8	2
Baker	1.8	3
Alexander	1.4	5
Rennie Lake	1.4	2
Tioga	1.3	5
West Butte	1.1	1

ENCLOSURE 1

Page 4

Starting Month (YYMM): 8611
Ending Month (YYMM): 8704

Field-Name	Field SO_2 Emissions (Tons)	Number of Wells
Springbrook	1.0	1
Antelope	0.7	3
Medora	0.7	12
Boxcar Butte	0.7	9
Lindahl	0.6	1
Zenith	0.5	8
Eightmile	0.5	9
Assiniboine	0.5	2
Cow Creek	0.4	1
Sather Lake	0.4	1
Ash Coulee	0.3	1
Lonesome	0.3	4
Cartwright	0.3	2
Magpie	0.1	1
Williston	0.1	2
Marquis	0.1	3
Edge	0.1	2

List 2

Fields Ranked on the Basis of Average SO_2 Emissions per Well Installation

ENCLOSURE 2

Page 1

Starting Month (YYMM): 8611
Ending Month (YYMM): 8704

Field-Name	Field SO_2 Emissions (Tons)	Number of Wells	Average SO_2 (Tons Per Well)
Scairt Woman	184.0	2	92.0
Oakdale	181.9	2	91.0
Smith	396.8	5	79.4
Spotted Horn	47.1	1	47.1
Crooked Creek	44.6	1	44.6
Dollar Joe	42.9	1	42.9
Bennett Creek	41.7	1	41.7
Lone Butte	358.3	9	39.8
Lost Bridge	155.8	5	31.2
Bear Den	123.5	4	30.9
Squaw Creek	29.3	1	29.3
Tepee Butte	27.6	1	27.6
Trailside	24.7	1	24.7
Little Knife	676.9	29	23.3
Green Lake	21.4	1	21.4
Dublin	42.1	2	21.1
West Tioga	50.3	3	16.8
White Earth	16.4	1	16.4
Ice Caves	29.4	2	14.7
Minnesota	14.6	1	14.6
Morgan Draw	43.2	3	14.4
Capa	38.4	3	12.8
Stoneview	94.6	8	11.8
Stanley	167.5	15	11.2
Croff	33.5	3	11.2
East Tioga	11.1	1	11.1
Hayland	10.4	1	10.4
Pleasant Hill	10.1	1	10.1
Dobson Butte	18.4	2	9.2
Manning	8.7	1	8.7
South Bull Moose	16.7	2	8.4
Union Center	57.0	7	8.1
Grassy Butte	53.2	7	7.6
Sadler	7.5	1	7.5
Lake Darling	29.1	4	7.3
Anderson Coulee	137.2	19	7.2
Hay Draw	18.2	3	6.1
Kimberly	18.1	3	6.0
Sherwood	71.4	12	6.0
Patent Gate	11.8	2	5.9
Pershing	11.8	2	5.9
Devils Pass	109.5	19	5.8
Rough Rider	222.8	39	5.7

ENCLOSURE 2

Page 2

Starting Month (YYMM): 8611
Ending Month (YYMM): 8704

Field-Name	Field SO_2 Emissions (Tons)	Number of Wells	Average SO_2 (Tons Per Well)
North Fork	11.2	2	5.6
Dale	21.9	4	5.5
Elkhorn Ranch	280.3	53	5.3
Hamlet	42.0	8	5.3
Battleview	21.2	4	5.3
Charlson	87.4	17	5.1
Black Slough	40.4	8	5.1
Werner	9.7	2	4.9
Big Stick	202.6	44	4.6
South Coteau	29.8	7	4.3
Bowbells	20.9	5	4.2
Cherry Creek	10.9	3	3.6
Epping	3.6	1	3.6
Timber Creek	3.4	1	3.4
Sakakawea	6.8	2	3.4
Pleasant Valley	10.3	3	3.4
Crazy Man Creek	9.3	3	3.1
Wildrose	3.1	1	3.1
Tree Top	122.7	39	3.1
Moraine	9.3	3	3.1
McKinney	34.1	11	3.1
East Fork	48.1	16	3.0
Tolley	5.8	2	2.9
Four Eyes	22.9	8	2.9
Rival	28.3	10	2.8
Buffalo Wallow	22.5	8	2.8
Buckhorn	55.3	20	2.8
Carter	2.6	1	2.6
Snow	5.1	2	2.6
Flaxton	102.5	41	2.5
Pleasant	29.9	12	2.5
Musta	4.2	2	2.1
McGregor	19.6	10	2.0
Tobacco Garden	3.9	2	2.0
Paulson	1.9	1	1.9
Rosebud	3.8	2	1.9
Russian Creek	5.1	3	1.7
Poe	3.3	2	1.7
T. R.	87.3	50	1.7
Estes	6.3	4	1.6
Squaw Gap	9.3	6	1.6
Square Butte	12.5	8	1.6

ENCLOSURE 2

Page 3

Starting Month (YYMM): 8611
Ending Month (YYMM): 8704

Field-Name	Field SO_2 Emissions (Tons)	Number of Wells	Average SO_2 (Tons Per Well)
Elmore	11.3	7	1.6
Rawson	15.3	10	1.5
Fryburg	48.9	33	1.5
Red Wing Creek	16.8	12	1.4
Whiskey Joe	41.6	30	1.4
Keene	2.7	2	1.4
Foothills	3.8	3	1.3
Camel Butte	15.9	13	1.2
Pronghorn	6.0	5	1.2
Woburn	19.3	16	1.2
Willow Creek	4.9	4	1.2
Ragged Butte	8.9	8	1.1
Mondak	76.0	71	1.1
Flat Top Butte	11.0	10	1.1
West Butte	1.1	1	1.1
Avoca	4.2	4	1.1
Springbrook	1.0	1	1.0
Burning Mine	2.0	2	1.0
Bull Moose	5.9	6	1.0
Bluell	1.8	2	0.9
Catwalk	12.2	16	0.8
Bullsnake	2.2	3	0.7
Rennie Lake	1.4	2	0.7
Poker Jim	4.8	7	0.7
Northeast Foothills	41.2	62	0.7
Last Chance	8.8	12	0.7
Coteau	2.2	3	0.7
Lindahl	0.6	1	0.6
Berg	2.2	4	0.6
Baker	1.8	3	0.6
Lignite	2.6	5	0.5
North Tioga	11.2	21	0.5
Glass Bluff	21.5	44	0.5
Dimmick Lake	3.1	6	0.5
Camp	7.3	19	0.4
Indian Hill	19.0	53	0.4
Sather Lake	0.4	1	0.4
Cow Creek	0.4	1	0.4
Nameless	2.0	5	0.4
Hardscrabble	2.6	9	0.3
Tioga	3.1	5	0.3
Blue Buttes	3.6	14	0.3

ENCLOSURE 2

Page 4

Starting Month (YYMM): 8611
Ending Month (YYMM): 8704

Field-Name	Field SO_2 Emissions (Tons)	Number of Wells	Average SO_2 (Tons Per Well)
Alexander	1.4	5	0.3
Ash Coulee	0.3	1	0.3
Assiniboine	0.5	2	0.3
Antelope	0.7	3	0.2
Cartwright	0.3	2	0.2
Boxcar Butte	0.7	9	0.1
Temple	1.9	14	0.1
South Westhope	4.7	36	0.1
Williston	0.1	2	0.1
Zenith	0.5	8	0.1
Medora	0.7	12	0.1
Lonesome	0.3	4	0.1
Magpie	0.1	1	0.1
Elk	5.4	52	0.1
Eightmile	0.5	9	0.1
Edge	0.1	2	0.1

List 3

Field-Pools Ranked on the Basis of Average H_2S Content

ENCLOSURE 3

Page 1

Field-Name	Pool-Name	No. of H_2S Values	Avg. H_2S (%)
Sand Creek	Red River	1	33.94
Lost Bridge	Madison	2	29.50
Sand Creek	Interlake	1	23.65
Oakdale	Madison	2	22.58
Lone Butte	Madison	12	22.05
Ranch Coulee	Red River	1	19.28
Pershing	Madison	1	18.90
Bear Den	Madison	1	18.87
Spotted Horn	Madison	1	18.76
Croff	Madison	1	18.00
Minnesota	Madison	1	16.25
West Capa	Red River	1	16.10
Barta	Madison	1	14.70
Baden	Madison	1	13.77
Park	Madison	1	12.57
Smith	Madison	3	12.20
Blue Buttes	Madison	3	12.05
Werner	Madison	1	12.02
Ellsworth	Red River	2	11.98
Juniper	Red River	1	11.97
Snow	Madison	1	11.66
Pleasant Hill	Red River	1	11.32
Lake Darling	Madison	3	10.63
Scairt Woman	Red River	1	10.58
Rough Rider	Red River	3	9.72
Little Knife	Madison	23	9.68
South Tobacco Garden	Red River	1	9.25
Tobacco Garden	Red River	1	9.13
Cherry Creek	Red River	1	9.00
Hay Draw	Silurian	1	8.78
Buffalo Wallow	Red River	4	8.70
Crooked Creek	Madison	1	8.60
Ice Caves	Red River	1	8.39
Four Eyes	Red River	1	8.33
North Fork	Red River	1	8.25
West Tioga	Red River	1	8.18
Beicegal Creek	Madison	1	7.33
Charlson	Red River	2	7.25
Russian Creek	Madison	2	7.22
Morgan Draw	Madison	4	7.13
Patent Gate	Red River	1	6.80
Bluell	Madison	1	6.79
Bennett Creek	Madison	1	6.75
Manning	Madison	1	6.50
Little Knife	Red River	1	6.31
Charlson	Madison	4	6.27
Buckhorn	Madison	2	5.90

ENCLOSURE 3

Page 2

Field-Name	Pool-Name	No. of H_2S Values	Avg. H_2S (%)
Bullsnake	Madison	2	5.50
Bully	Red River	2	5.50
South Westhope	Madison	1	5.49
Union Center	Madison	6	5.44
Tolley	Madison	4	5.40
McKinney	Madison	15	5.37
Pleasant	Madison	8	5.32
Elmore	Madison	12	5.25
Blue Buttes	Red River	2	5.25
Dublin	Madison	2	5.21
Camel Butte	Madison	4	5.14
Scairt Woman	Madison	3	4.86
Bowbells	Madison	2	4.85
Grassy Butte	Madison	2	4.81
Stanley	Madison	13	4.75
Dale	Madison	1	4.50
Rough Rider	Madison	8	4.45
Coteau	Madison	1	4.37
Moraine	Duperow	1	4.28
Green Lake	Madison	1	4.26
Squaw Gap	Madison	9	4.22
Devils Pass	Madison	6	4.19
Anderson Coulee	Madison	10	4.05
Hamlet	Madison	4	4.01
South Coteau	Madison	6	4.00
Lostwood	Madison	3	4.00
Hawkeye	Red River	1	3.97
Butte	Madison	1	3.87
Elkhorn Ranch	Madison	15	3.84
Berg	Madison	4	3.81
Stoneview	Madison	1	3.69
Sherwood	Madison	2	3.61
Hayland	Madison	1	3.43
Baukol Noonan	Madison	1	3.32
Battleview	Madison	2	3.31
Hawkeye	Madison	43	3.30
Pleasant Valley	Madison	1	3.21
Woburn	Madison	21	3.10
West Tioga	Madison	8	3.05
Four Eyes	Madison	7	3.02
Edge	Madison	1	2.91
East Fork	Madison	1	2.90
Poker Jim	Madison	7	2.84
Antelope	Madison	45	2.83
Lindahl	Madison	6	2.74
Flaxton	Madison	21	2.74
Dobson Butte	Silurian	3	2.74

ENCLOSURE 3

Field-Name	Pool-Name	No. of H_2S Values	Avg. H_2S (%)
Columbus	Madison	1	2.56
Foothills	Madison	9	2.50
Black Slough	Madison	22	2.49
Keene	Silurian	8	2.42
Tree Top	Heath	1	2.37
Springbrook	Madison	1	2.35
Big Stick	Madison	31	2.32
Keene	Madison	6	2.29
West Sherwood	Madison	1	2.25
Red Wing Creek	Madison	13	2.25
Buffalo Wallow	Madison	3	2.22
Wildrose	Madison	1	2.18
Tree Top	Madison	24	2.14
Beaver Lodge	Silurian	1	2.06
Lignite	Madison	17	2.00
Kimberly	Madison	2	1.99
Bear Den	Red River	1	1.98
Rival	Madison	1	1.97
South Bull Moose	Madison	2	1.96
Catwalk	Madison	3	1.91
Trailside	Madison	1	1.85
West Butte	Madison	1	1.80
Rennie Lake	Madison	17	1.75
Charlson	Silurian	23	1.74
Flat Top Butte	Red River	2	1.68
Northeast Foothills	Madison	3	1.68
Mondak	Madison	74	1.60
Avoca	Madison	3	1.54
Beaver Lodge	Madison	30	1.53
T. R.	Madison	34	1.46
Sakakawea	Madison	2	1.44
Poe	Madison	2	1.38
Rawson	Madison	2	1.35
Russian Creek	Red River	1	1.33
Whiskey Joe	Madison	17	1.32
Flat Top Butte	Madison	3	1.25
Cow Creek	Madison	1	1.24
McGregor	Madison	9	1.21
Tepee Butte	Red River	1	1.19
Capa	Madison	1	1.17
North Fork	Silurian	1	1.16
Bull Moose	Madison	2	1.12
Church	Madison	1	1.10
Poe	Red River	1	1.07
Square Butte	Madison	3	1.02
Tioga	Madison	3	0.92
Alexander	Madison	4	0.91

ENCLOSURE 3

Page 4

Field-Name	Pool-Name	No. of H_2S Values	Avg. H_2S (%)
Crazy Man Creek	Madison	3	0.90
Last Chance	Madison	2	0.87
Burning Mine	Red River	2	0.86
Ash Coulee	Bakken	1	0.82
Dimmick Lake	Madison	4	0.80
Bull Moose	Red River	2	0.80
North Tioga	Madison	26	0.76
Estes	Madison	2	0.73
Cartwright	Red River	1	0.67
Estes	Bakken	1	0.66
Willow Creek	Madison	2	0.65
Carter	Madison	2	0.63
Pickett	Madison	2	0.61
Camel Butte	Silurian	2	0.60
Sioux	Madison	1	0.57
Ragged Butte	Madison	4	0.56
Indian Hill	Madison	14	0.56
Hardscrabble	Madison	4	0.50
Pronghorn	Madison	2	0.46
Tioga	Silurian	1	0.45
Antelope	Sanish	5	0.41
Camp	Madison	1	0.32
Cartwright	Madison	2	0.30
Zenith	Heath	3	0.29
Norwegian Creek	Madison	1	0.26
Tioga	Ordovician	1	0.21
Nameless	Madison	1	0.20
Marquis	Madison	2	0.18
Assiniboine	Madison	1	0.18
Fryburg	Heath	26	0.17
Pershing	Silurian	1	0.15
Lonesome	Madison	1	0.14
Paulson	Red River	1	0.13
Willow Creek	Red River	1	0.13
Blue Buttes	Silurian	10	0.13
Charlson	Devonian	4	0.11
Elk	Madison	11	0.11
Eleven Bar	Red River	1	0.10
Glenburn	Madison	35	0.10
Knutson	Madison	1	0.09
Spiral	Madison	1	0.09
Sather Lake	Madison	1	0.03
Magpie	Duperow	1	0.05
Baker	Madison	1	0.04
Capa	Silurian	1	0.04
Arnegard	Madison	1	0.03
West Tioga	Bakken	1	0.03

ENCLOSURE 3

Page 5

Field-Name	Pool-Name	No. of H_2S Values	Avg. H_2S (%)
Temple	Winnipegosis	3	0.02
Chola	Madison	9	0.01
Hay Draw	Red River	1	0.01
Eightmile	Madison	7	0.01
Dimmick Lake	Silurian	2	0.01
Camp	Silurian	2	0.01
Blue Buttes	Duperow	2	0.01

APPENDIX B

Source Location Maps and Model Input Data for Each Study Field and PSD Class I Area

Key:

Source symbols* used on maps depicting locations of study-field SO_2 sources.

	PSD-Increment Consuming	Non-PSD-Increment Consuming
Lease-Use Treater Only	△	▲
Active Flare Only	○	●
Both	□	■

* Future-well symbol labels are prefixed by the letter F.

Key:
Source Numbers Used in ISCST Input Listings

Source Number	Computed As:	Description
Existing Well-Related Point Sources: 1 - 79999		
1-19999	0 + Well Number*	Non-PSD-increment-consuming treaters
20001-39999	20000 + Well Number*	Non-PSD-increment-consuming flares
40001-59999	40000 + Well Number*	PSD-increment-consuming treaters
60001-79999	60000 + Well Number*	PSD-increment-consuming flares
Future Well-Related Sources: 80001 - 89999		
80001-84999	80000 + Seq. Number**	Future treaters (Point Sources)
85001-87999	85000 + Seq. Number**	Future flares (Point Sources)
88001-89999	88000 + Seq. Number***	Future area sources
Existing Well-Related Area Sources: 90001 - 98999		
90001-94999	90000 + Seq. Number***	Non-PSD-increment-consuming
95001-98999	95000 + Seq. Number***	PSD-increment-consuming
Non-Well-Related Sources: 99001 - 99999		
99001-99499	99000 + Seq. Number***	Non-PSD-increment-consuming
99501-99999	99500 + Seq. Number***	PSD-increment-consuming

*For North Dakota wells, Well Number = permit number (1-14999).
For Montana wells, Well Number = 15000 + last 3 digits of MSDHES well number.

**Sequence Number for future point sources is a 4-digit code which reflects Field (first 2 digits) and arbitrary well number (last 2 digits).

***Sequence Number for non-well-related sources and for well-related area sources is arbitrary.

Big Stick Field

Figure B-1
Big Stick Field
Locations of Existing SO_2 Point and Area Sources

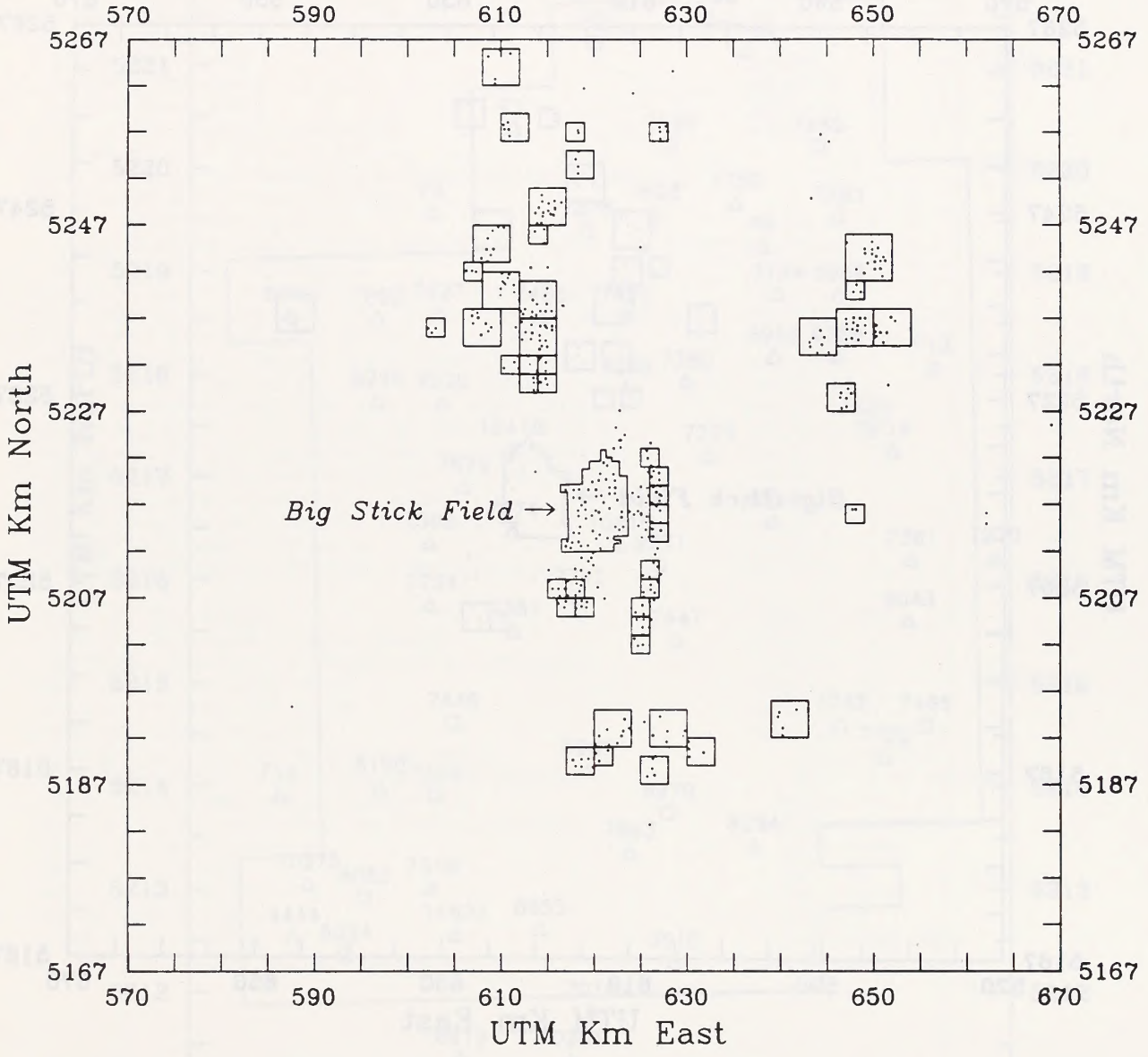


Figure B-2
Big Stick Field
Locations of Future SO_2 Point and Area Sources

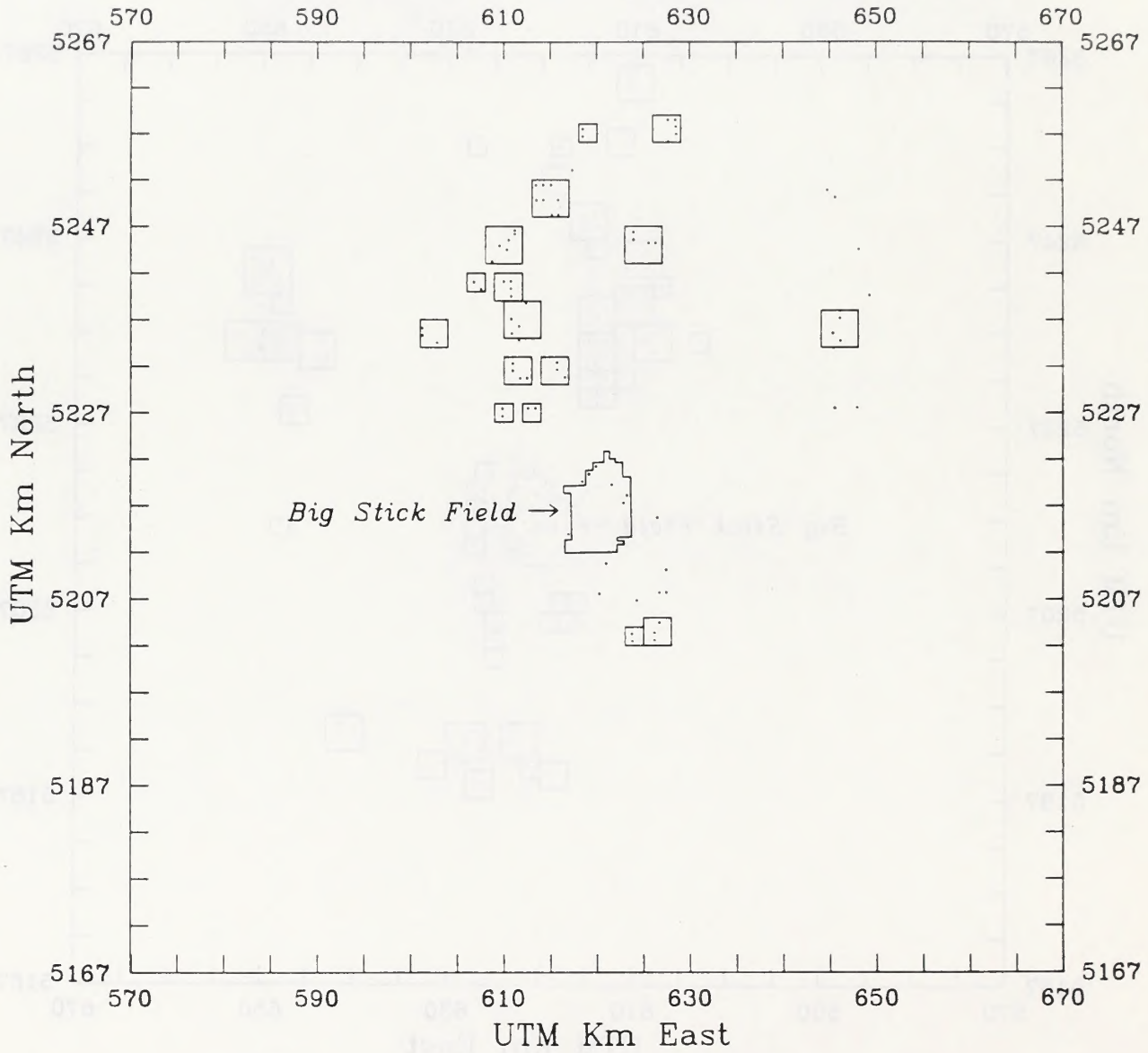


Figure B-3
Big Stick Field
Locations of Study-Field SO_2 Sources

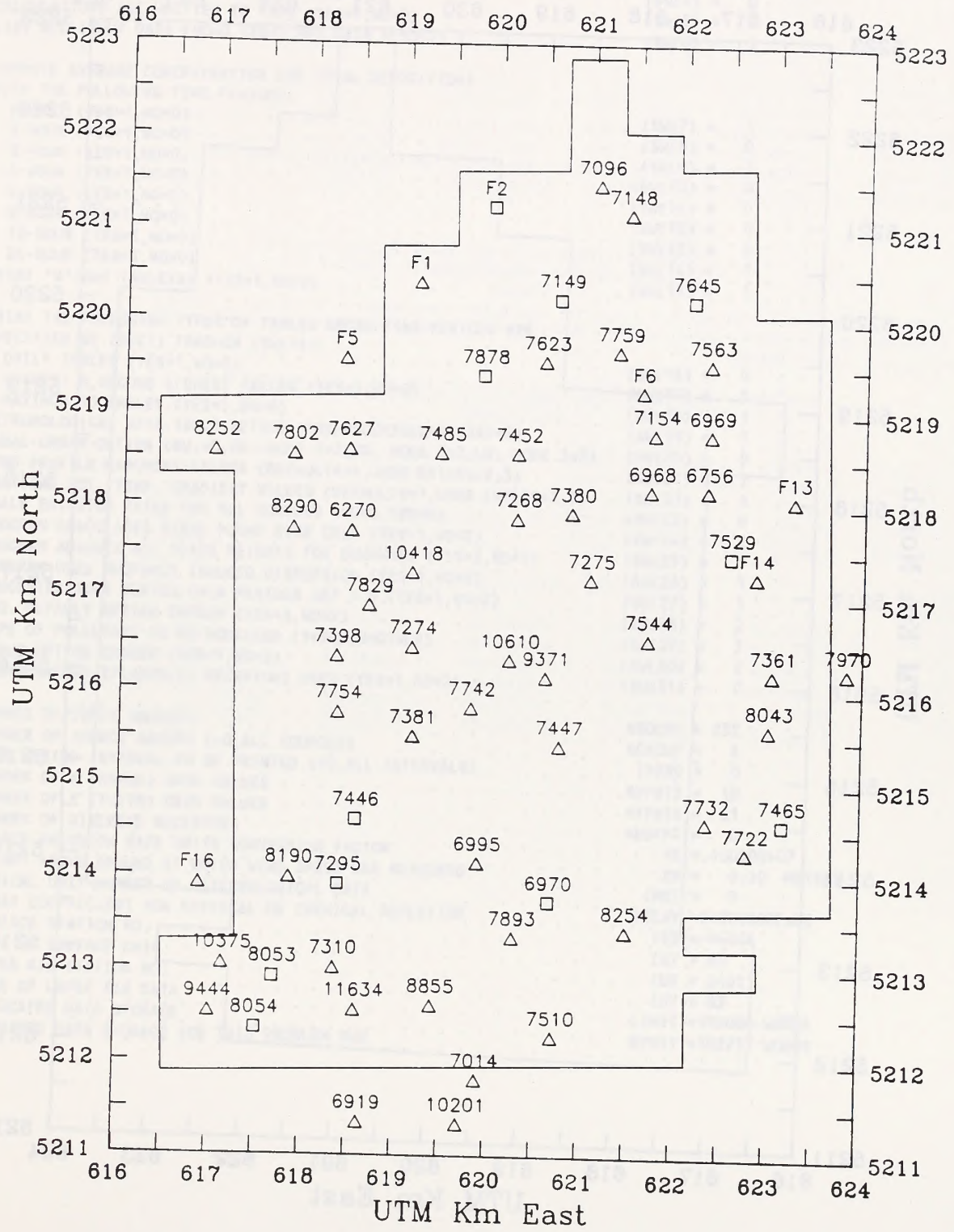
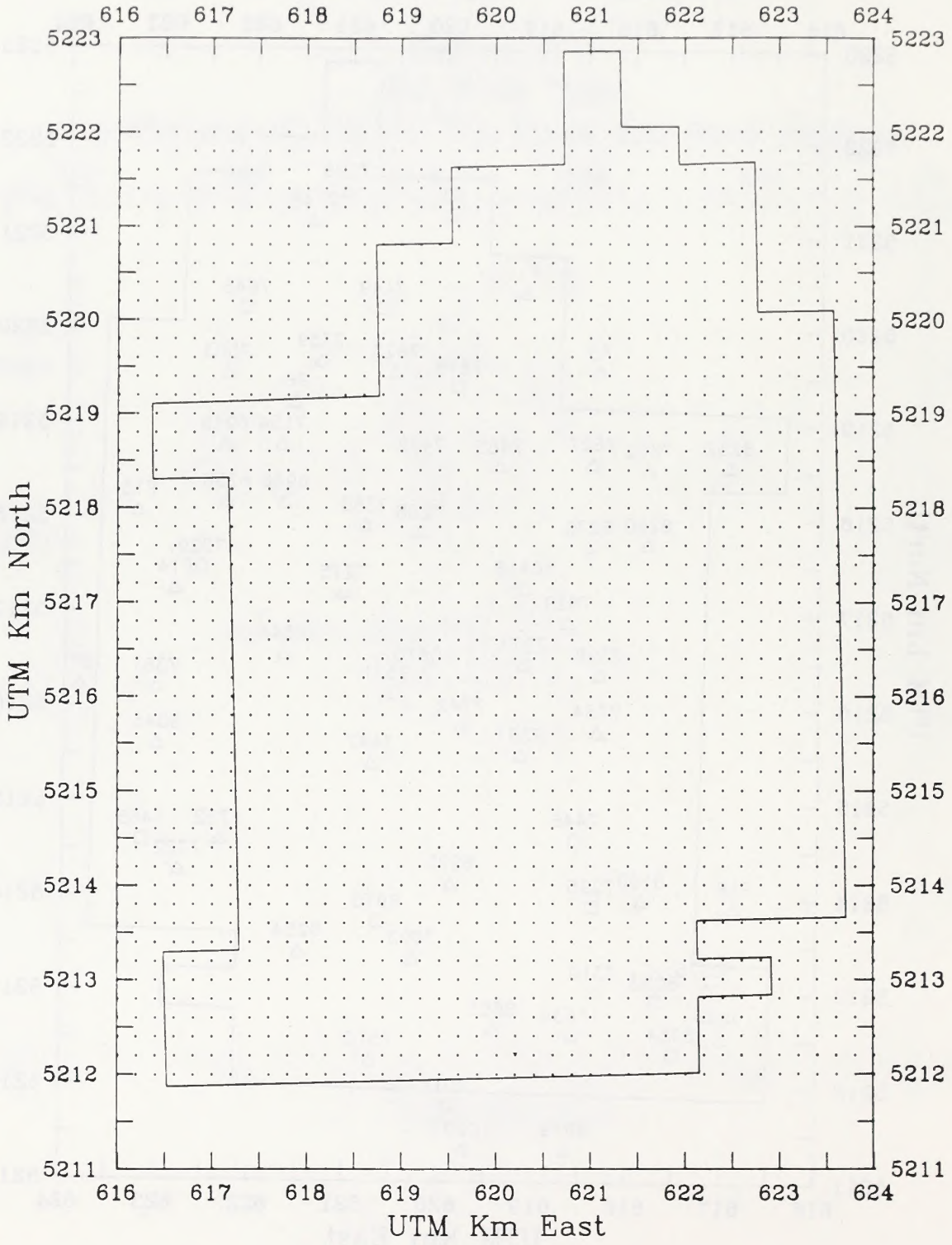


Figure B-4
Big Stick Field
ISCST Receptor Locations



*** BIG STICK FIELD SO2 - RECEPTOR GROUP 1 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 232
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 4
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 10
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 51
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT =102717 WORDS

```
***            BIG STICK FIELD SO2 - RECEPTOR GROUP 1            ***

                  *** METEOROLOGICAL DAYS TO BE PROCESSED ***
                                    (IF=1)

1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 0

         *** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
                                   (NSOGRP)

   4,   6,   2,   6,

                  *** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
                                    (IDSOR)

     1,-79999, 90001,-99999, 40001,-79999, 95001,-98999, 99501,-99999,     1,-99999, 40001,-89999,
 95001,-98999, 99501,-99999,

         *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                 (METERS/SEC)

                      1.54,    3.09,    5.14,    8.23,   10.80,

                          *** WIND PROFILE EXPONENTS ***

 STABILITY                          WIND SPEED CATEGORY
 CATEGORY       1              2              3              4              5              6
    A      .70000E-01     .70000E-01     .70000E-01     .70000E-01     .70000E-01     .70000E-01
    B      .70000E-01     .70000E-01     .70000E-01     .70000E-01     .70000E-01     .70000E-01
    C      .10000E+00     .10000E+00     .10000E+00     .10000E+00     .10000E+00     .10000E+00
    D      .15000E+00     .15000E+00     .15000E+00     .15000E+00     .15000E+00     .15000E+00
    E      .35000E+00     .35000E+00     .35000E+00     .35000E+00     .35000E+00     .35000E+00
    F      .55000E+00     .55000E+00     .55000E+00     .55000E+00     .55000E+00     .55000E+00
```

*** BIG STICK FIELD SO2 - RECEPTOR GROUP 1 ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

16000.0, 16200.0, 16400.0, 16600.0, 16800.0, 17000.0, 17200.0, 17400.0, 17600.0, 17800.0,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

12000.0, 12200.0, 12400.0, 12600.0, 12800.0, 13000.0, 13200.0, 13400.0, 13600.0, 13800.0,
14000.0, 14200.0, 14400.0, 14600.0, 14800.0, 15000.0, 15200.0, 15400.0, 15600.0, 15800.0,
16000.0, 16200.0, 16400.0, 16600.0, 16800.0, 17000.0, 17200.0, 17400.0, 17600.0, 17800.0,
18000.0, 18200.0, 18400.0, 18600.0, 18800.0, 19000.0, 19200.0, 19400.0, 19600.0, 19800.0,
20000.0, 20200.0, 20400.0, 20600.0, 20800.0, 21000.0, 21200.0, 21400.0, 21600.0, 21800.0,
22000.0,

*** BIG STICK FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
4008	0	0	0	0.30000E-02	25379.0	-6280.0	0.0	6.71	1000.00	1.11	0.30	0.00	0.00	0.00
6205	0	0	0	0.31200E+00	45213.0	55939.0	0.0	6.71	1000.00	2.42	0.30	0.00	0.00	0.00
26205	0	0	0	0.21580E+01	45213.0	55939.0	0.0	6.10	1000.00	16.76	0.30	0.00	0.00	0.00
45168	0	0	0	0.19500E+00	13191.0	42464.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
46270	0	0	0	0.15300E+00	18474.0	17701.0	0.0	9.45	1000.00	5.92	0.30	0.00	0.00	0.00
46546	0	0	0	0.81000E-01	19505.0	9757.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46579	0	0	0	0.13500E+00	23316.0	24452.0	0.0	6.71	1000.00	3.36	0.30	0.00	0.00	0.00
46589	0	0	0	0.88000E-01	18028.0	9343.0	0.0	6.71	1000.00	3.76	0.30	0.00	0.00	0.00
46602	0	0	0	0.96000E-01	20388.0	8153.0	0.0	6.71	1000.00	2.96	0.30	0.00	0.00	0.00
46756	0	0	0	0.38000E+00	22327.0	18168.0	0.0	10.06	1000.00	9.30	0.30	0.00	0.00	0.00
46830	0	0	0	0.96000E-01	22710.0	23862.0	0.0	6.71	1000.00	3.40	0.30	0.00	0.00	0.00
46845	0	0	0	0.63000E-01	18609.0	9960.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46884	0	0	0	0.21800E+00	22359.0	25253.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
46891	0	0	0	0.30000E-02	22922.0	23905.0	0.0	8.84	1000.00	0.81	0.30	0.00	0.00	0.00
46918	0	0	0	0.17600E+00	17962.0	10150.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46919	0	0	0	0.76000E-01	18631.0	11349.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46956	0	0	0	0.10500E+00	25017.0	18883.0	0.0	6.71	1000.00	2.86	0.30	0.00	0.00	0.00
46959	0	0	0	0.34700E+00	24971.0	44649.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
46968	0	0	0	0.29100E+00	21723.0	18145.0	0.0	9.14	1000.00	9.30	0.30	0.00	0.00	0.00
46969	0	0	0	0.41200E+00	22284.0	18801.0	0.0	9.45	1000.00	9.30	0.30	0.00	0.00	0.00
46970	0	0	0	0.19500E+00	20676.0	13756.0	0.0	9.45	1000.00	9.30	0.30	0.00	0.00	0.00
46995	0	0	0	0.47200E+00	19841.0	14143.0	0.0	8.84	1000.00	16.28	0.30	0.00	0.00	0.00
47012	0	0	0	0.57000E-01	21191.0	6938.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47014	0	0	0	0.10600E+00	19895.0	11816.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47045	0	0	0	0.54000E-01	27160.0	9567.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47070	0	0	0	0.34700E+00	13625.0	28953.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
47092	0	0	0	0.34000E-01	19109.0	9315.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47096	0	0	0	0.31900E+00	21350.0	21337.0	0.0	7.01	1000.00	7.73	0.30	0.00	0.00	0.00
47148	0	0	0	0.43500E+00	21350.0	21337.0	0.0	7.01	1000.00	10.53	0.30	0.00	0.00	0.00
47149	0	0	0	0.24100E+00	20640.0	20276.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
47154	0	0	0	0.28300E+00	21690.0	18764.0	0.0	8.84	1000.00	7.86	0.30	0.00	0.00	0.00
47223	0	0	0	0.20600E+00	26627.0	18355.0	0.0	6.10	1000.00	7.41	0.30	0.00	0.00	0.00
47268	0	0	0	0.17800E+00	19293.0	17263.0	0.0	9.14	1000.00	5.69	0.30	0.00	0.00	0.00
47274	0	0	0	0.24100E+00	20170.0	15458.0	0.0	10.67	1000.00	13.95	0.30	0.00	0.00	0.00
47275	0	0	0	0.45100E+00	21149.0	17117.0	0.0	9.14	1000.00	11.78	0.30	0.00	0.00	0.00
47278	0	0	0	0.77000E-01	19416.0	10940.0	0.0	6.71	1000.00	4.35	0.30	0.00	0.00	0.00
47280	0	0	0	0.30900E+00	25514.0	14299.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
47284	0	0	0	0.14100E+00	25783.0	20458.0	0.0	6.71	1000.00	5.86	0.30	0.00	0.00	0.00
47295	0	0	0	0.22300E+00	18393.0	13883.0	0.0	9.45	1000.00	9.30	0.30	0.00	0.00	0.00

*** BIG STICK FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
47310	0	0	0	0.28200E+00	18251.0	13103.0	0.0	9.45	1000.00	9.02	0.30	0.00	0.00	0.00
47337	0	0	0	0.10170E+01	28527.0	63540.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
47352	0	0	0	0.20700E+00	26627.0	18355.0	0.0	6.10	1000.00	7.47	0.30	0.00	0.00	0.00
47361	0	0	0	0.11600E+00	22301.0	16232.0	0.0	5.49	1000.00	3.72	0.30	0.00	0.00	0.00
47380	0	0	0	0.30100E+00	21101.0	18042.0	0.0	9.75	1000.00	9.62	0.30	0.00	0.00	0.00
47381	0	0	0	0.26000E-01	20170.0	15458.0	0.0	10.67	1000.00	13.95	0.30	0.00	0.00	0.00
47389	0	0	0	0.28600E+00	24174.0	18254.0	0.0	6.71	1000.00	7.82	0.30	0.00	0.00	0.00
47398	0	0	0	0.90000E-02	18330.0	16339.0	0.0	9.14	1000.00	0.33	0.30	0.00	0.00	0.00
47432	0	0	0	0.32200E+00	25514.0	14299.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
47446	0	0	0	0.35000E+00	18393.0	13883.0	0.0	9.45	1000.00	9.30	0.30	0.00	0.00	0.00
47447	0	0	0	0.69400E+00	21386.0	15010.0	0.0	9.75	1000.00	19.65	0.30	0.00	0.00	0.00
47452	0	0	0	0.14200E+00	20179.0	18562.0	0.0	9.14	1000.00	3.61	0.30	0.00	0.00	0.00
47465	0	0	0	0.38000E-01	23128.0	14595.0	0.0	9.14	1000.00	1.23	0.30	0.00	0.00	0.00
47476	0	0	0	0.44000E-01	25632.0	15672.0	0.0	6.71	1000.00	0.94	0.30	0.00	0.00	0.00
47485	0	0	0	0.39600E+00	20179.0	18562.0	0.0	9.14	1000.00	15.07	0.30	0.00	0.00	0.00
47505	0	0	0	0.34000E+00	25063.0	15902.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47510	0	0	0	0.31900E+00	20725.0	12879.0	0.0	5.18	1000.00	10.19	0.30	0.00	0.00	0.00
47514	0	0	0	0.92000E-01	24753.0	14740.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
47529	0	0	0	0.29100E+00	22580.0	17487.0	0.0	9.14	1000.00	9.30	0.30	0.00	0.00	0.00
47544	0	0	0	0.14800E+00	21149.0	17117.0	0.0	9.14	1000.00	6.82	0.30	0.00	0.00	0.00
47563	0	0	0	0.34600E+00	22284.0	18801.0	0.0	9.45	1000.00	9.30	0.30	0.00	0.00	0.00
47623	0	0	0	0.10100E+00	20567.0	19554.0	0.0	9.45	1000.00	3.22	0.30	0.00	0.00	0.00
47627	0	0	0	0.22000E-01	18398.0	18629.0	0.0	9.75	1000.00	3.79	0.30	0.00	0.00	0.00
47645	0	0	0	0.32300E+00	22081.0	20267.0	0.0	10.06	1000.00	9.30	0.30	0.00	0.00	0.00
47675	0	0	0	0.86000E-01	26078.0	23573.0	0.0	6.71	1000.00	0.95	0.30	0.00	0.00	0.00
47722	0	0	0	0.32900E+00	22801.0	14303.0	0.0	9.75	1000.00	7.45	0.30	0.00	0.00	0.00
47732	0	0	0	0.23900E+00	22801.0	14303.0	0.0	9.75	1000.00	7.41	0.30	0.00	0.00	0.00
47742	0	0	0	0.16200E+00	20170.0	15458.0	0.0	10.67	1000.00	13.95	0.30	0.00	0.00	0.00
47754	0	0	0	0.20700E+00	18330.0	15790.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
47759	0	0	0	0.34800E+00	21690.0	18764.0	0.0	8.84	1000.00	10.96	0.30	0.00	0.00	0.00
47775	0	0	0	0.14000E+00	25840.0	13482.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47776	0	0	0	0.18400E+00	26789.0	12284.0	0.0	6.71	1000.00	3.42	0.30	0.00	0.00	0.00
47802	0	0	0	0.10400E+00	17803.0	18514.0	0.0	8.53	1000.00	6.04	0.30	0.00	0.00	0.00
47823	0	0	0	0.16400E+00	18934.0	61668.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
47829	0	0	0	0.15200E+00	18629.0	16932.0	0.0	9.75	1000.00	5.89	0.30	0.00	0.00	0.00
47878	0	0	0	0.29100E+00	19821.0	19387.0	0.0	9.45	1000.00	9.30	0.30	0.00	0.00	0.00
47893	0	0	0	0.16400E+00	19912.0	13311.0	0.0	6.71	1000.00	6.53	0.30	0.00	0.00	0.00
47970	0	0	0	0.39900E+00	23821.0	16234.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48043	0	0	0	0.72000E-01	22401.0	15417.0	0.0	7.92	1000.00	2.47	0.30	0.00	0.00	0.00

*** BIG STICK FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
48053	0	0	0	0.21700E+00	17691.0	12876.0	0.0	8.84	1000.00	9.30	0.30	0.00	0.00	0.00
48116	0	0	0	0.34000E+00	24764.0	16315.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48190	0	0	0	0.29100E+00	17723.0	14431.0	0.0	8.53	1000.00	9.30	0.30	0.00	0.00	0.00
48202	0	0	0	0.45700E+00	51591.0	29807.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
48214	0	0	0	0.30000E-01	26444.0	6785.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
48252	0	0	0	0.97000E-01	18398.0	18629.0	0.0	9.75	1000.00	3.79	0.30	0.00	0.00	0.00
48254	0	0	0	0.72000E-01	21439.0	13423.0	0.0	9.45	1000.00	2.77	0.30	0.00	0.00	0.00
48290	0	0	0	0.15200E+00	17834.0	17766.0	0.0	9.14	1000.00	5.87	0.30	0.00	0.00	0.00
48325	0	0	0	0.39900E+00	24258.0	15909.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48333	0	0	0	0.82000E-01	25129.0	13464.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
48403	0	0	0	0.49100E+00	62049.0	16072.0	0.0	6.71	1000.00	4.57	0.30	0.00	0.00	0.00
48554	0	0	0	0.80000E-02	25066.0	16037.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48726	0	0	0	0.10510E+01	43298.0	49845.0	0.0	7.62	1000.00	9.30	0.30	0.00	0.00	0.00
48855	0	0	0	0.46000E+00	19912.0	13311.0	0.0	6.71	1000.00	6.53	0.30	0.00	0.00	0.00
49262	0	0	0	0.96000E-01	19909.0	10516.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
49371	0	0	0	0.37100E+00	21386.0	15010.0	0.0	9.75	1000.00	9.68	0.30	0.00	0.00	0.00
49389	0	0	0	0.40000E-02	26162.0	4679.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
49444	0	0	0	0.37800E+00	16986.0	12493.0	0.0	9.75	1000.00	12.07	0.30	0.00	0.00	0.00
49594	0	0	0	0.69000E-01	15056.0	42501.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
49641	0	0	0	0.66100E+00	16660.0	38360.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49799	0	0	0	0.10500E+00	44293.0	56681.0	0.0	6.71	1000.00	0.81	0.30	0.00	0.00	0.00
49815	0	0	0	0.38000E-01	62059.0	14971.0	0.0	6.71	1000.00	0.35	0.30	0.00	0.00	0.00
49862	0	0	0	0.35600E+00	22762.0	27079.0	0.0	6.71	1000.00	8.10	0.30	0.00	0.00	0.00
49900	0	0	0	0.66100E+00	11543.0	36041.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
50120	0	0	0	0.41000E-01	15099.0	10006.0	0.0	6.71	1000.00	2.34	0.30	0.00	0.00	0.00
50201	0	0	0	0.33000E-01	19708.0	11341.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
50375	0	0	0	0.76000E-01	17104.0	13061.0	0.0	9.75	1000.00	2.42	0.30	0.00	0.00	0.00
50418	0	0	0	0.81000E-01	19293.0	17263.0	0.0	9.14	1000.00	2.60	0.30	0.00	0.00	0.00
50610	0	0	0	0.23300E+00	20170.0	15458.0	0.0	10.67	1000.00	13.95	0.30	0.00	0.00	0.00
50877	0	0	0	0.18300E+00	24755.0	17789.0	0.0	6.71	1000.00	5.01	0.30	0.00	0.00	0.00
51313	0	0	0	0.14100E+00	24187.0	61137.0	0.0	6.71	1000.00	5.49	0.30	0.00	0.00	0.00
51417	0	0	0	0.50000E-02	-12449.0	-4676.0	0.0	6.71	1000.00	1.90	0.30	0.00	0.00	0.00
51581	0	0	0	0.58000E-01	26575.0	11664.0	0.0	6.71	1000.00	2.48	0.30	0.00	0.00	0.00
51634	0	0	0	0.12900E+00	18251.0	13103.0	0.0	9.45	1000.00	4.11	0.30	0.00	0.00	0.00
52134	0	0	0	0.30000E-02	25964.0	-17366.0	0.0	9.14	1000.00	1.46	0.30	0.00	0.00	0.00
65168	0	0	0	0.89000E-01	13191.0	42464.0	0.0	3.05	1000.00	1.72	0.30	0.00	0.00	0.00
66602	0	0	0	0.72500E+00	20388.0	8153.0	0.0	0.30	1000.00	22.33	0.30	0.00	0.00	0.00
66959	0	0	0	0.83650E+01	24971.0	44649.0	0.0	6.10	1000.00	55.41	0.30	0.00	0.00	0.00
66970	0	0	0	0.50000E-02	20691.0	13711.0	0.0	1.22	1000.00	0.24	0.30	0.00	0.00	0.00

*** BIG STICK FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
67012	0	0	0	0.26000E+00	21191.0	6938.0	0.0	3.05	1000.00	16.98	0.30	0.00	0.00	0.00
67070	0	0	0	0.42000E-01	13625.0	28953.0	0.0	3.05	1000.00	0.75	0.30	0.00	0.00	0.00
67149	0	0	0	0.20000E-02	20677.0	20295.0	0.0	1.22	1000.00	0.07	0.30	0.00	0.00	0.00
67295	0	0	0	0.40000E-02	18398.0	13857.0	0.0	0.91	1000.00	1.51	0.30	0.00	0.00	0.00
67337	0	0	0	0.13920E+01	28527.0	63540.0	0.0	6.10	1000.00	14.42	0.30	0.00	0.00	0.00
67446	0	0	0	0.50000E-01	18398.0	13857.0	0.0	0.91	1000.00	1.51	0.30	0.00	0.00	0.00
67465	0	0	0	0.10000E-02	23140.0	14636.0	0.0	0.91	1000.00	0.04	0.30	0.00	0.00	0.00
67514	0	0	0	0.30000E-02	24753.0	14740.0	0.0	0.30	1000.00	0.09	0.30	0.00	0.00	0.00
67529	0	0	0	0.60000E-02	22601.0	17460.0	0.0	0.30	1000.00	0.20	0.30	0.00	0.00	0.00
67645	0	0	0	0.10000E-02	22058.0	20187.0	0.0	0.30	1000.00	0.03	0.30	0.00	0.00	0.00
67823	0	0	0	0.15370E+01	18934.0	61668.0	0.0	3.05	1000.00	58.12	0.30	0.00	0.00	0.00
67878	0	0	0	0.30000E-02	19799.0	19422.0	0.0	0.91	1000.00	0.09	0.30	0.00	0.00	0.00
68053	0	0	0	0.50000E-02	17743.0	12848.0	0.0	0.61	1000.00	0.20	0.30	0.00	0.00	0.00
68075	0	0	0	0.17000E-01	13697.0	20486.0	0.0	3.05	1000.00	1.43	0.30	0.00	0.00	0.00
68202	0	0	0	0.17020E+01	51591.0	29807.0	0.0	0.30	1000.00	13.84	0.30	0.00	0.00	0.00
68726	0	0	0	0.97100E+00	43298.0	49845.0	0.0	3.05	1000.00	8.60	0.30	0.00	0.00	0.00
71313	0	0	0	0.13200E+00	24187.0	61137.0	0.0	3.05	1000.00	5.14	0.30	0.00	0.00	0.00
72134	0	0	0	0.60000E-02	25964.0	-17366.0	0.0	1.83	1000.00	3.30	0.30	0.00	0.00	0.00
80101	0	0	0	0.10000E-02	27406.0	10124.0	0.0	6.71	1000.00	3.13	0.30	0.00	0.00	0.00
80102	0	0	0	0.49000E-01	27465.0	7714.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80103	0	0	0	0.10000E-02	26661.0	7697.0	0.0	6.71	1000.00	3.13	0.30	0.00	0.00	0.00
80104	0	0	0	0.49000E-01	24246.0	6832.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80201	0	0	0	0.24100E+00	19137.0	20403.0	0.0	6.71	1000.00	7.76	0.30	0.00	0.00	0.00
80202	0	0	0	0.24100E+00	19942.0	21228.0	0.0	6.71	1000.00	7.76	0.30	0.00	0.00	0.00
80205	0	0	0	0.24100E+00	18352.0	19574.0	0.0	6.71	1000.00	7.76	0.30	0.00	0.00	0.00
80206	0	0	0	0.40700E+00	21574.0	19243.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
80213	0	0	0	0.24100E+00	23226.0	18079.0	0.0	6.71	1000.00	7.76	0.30	0.00	0.00	0.00
80214	0	0	0	0.40700E+00	22828.0	17255.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
80216	0	0	0	0.24100E+00	16868.0	13908.0	0.0	6.71	1000.00	7.76	0.30	0.00	0.00	0.00
80301	0	0	0	0.64500E+00	44699.0	50880.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80302	0	0	0	0.64500E+00	45514.0	50111.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80306	0	0	0	0.64500E+00	49202.0	39630.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80310	0	0	0	0.64500E+00	45298.0	33928.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80312	0	0	0	0.64500E+00	45481.0	27483.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80314	0	0	0	0.64500E+00	47879.0	27547.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80404	0	0	0	0.29000E+00	11629.0	34697.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
80503	0	0	0	0.31100E+00	17349.0	53031.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
81401	0	0	0	0.23100E+00	26476.0	15738.0	0.0	6.71	1000.00	6.70	0.30	0.00	0.00	0.00
81501	0	0	0	0.52000E-01	20960.0	10779.0	0.0	6.71	1000.00	2.78	0.30	0.00	0.00	0.00

*** BIG STICK FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	AK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
81502	0	0	0	0.52000E-01	20197.0	7545.0	0.0	6.71	1000.00	2.78	0.30	0.00	0.00	0.00
85202	0	0	0	0.70000E-02	19908.0	21240.0	0.0	3.05	1000.00	0.22	0.30	0.00	0.00	0.00
85304	0	0	0	0.34300E+00	48064.0	44550.0	0.0	3.05	1000.00	2.71	0.30	0.00	0.00	0.00
85404	0	0	0	0.51000E-01	11601.0	34719.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
85503	0	0	0	0.33700E+00	17373.0	53055.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
88001	2	0	0	0.24000E-06	18000.0	56000.0	0.0	9.34	0.00	2000.00	0.00	0.00	0.00	0.00
88002	2	0	0	0.40900E-06	26000.0	56000.0	0.0	11.75	0.00	3000.00	0.00	0.00	0.00	0.00
88003	2	0	0	0.71100E-06	13000.0	48000.0	0.0	11.06	0.00	4000.00	0.00	0.00	0.00	0.00
88004	2	0	0	0.24300E-06	8000.0	43000.0	0.0	8.79	0.00	4000.00	0.00	0.00	0.00	0.00
88005	2	0	0	0.25200E-05	23000.0	43000.0	0.0	38.99	0.00	4000.00	0.00	0.00	0.00	0.00
88006	2	0	0	0.26800E-06	6000.0	40000.0	0.0	10.23	0.00	2000.00	0.00	0.00	0.00	0.00
88007	2	0	0	0.34200E-06	9000.0	39000.0	0.0	12.78	0.00	3000.00	0.00	0.00	0.00	0.00
88008	2	0	0	0.47600E-06	1000.0	34000.0	0.0	14.22	0.00	3000.00	0.00	0.00	0.00	0.00
88009	2	0	0	0.11600E-06	10000.0	35000.0	0.0	10.58	0.00	4000.00	0.00	0.00	0.00	0.00
88010	2	0	0	0.14600E-06	10000.0	30000.0	0.0	9.67	0.00	3000.00	0.00	0.00	0.00	0.00
88011	2	0	0	0.11400E-06	14000.0	30000.0	0.0	9.47	0.00	3000.00	0.00	0.00	0.00	0.00
88012	2	0	0	0.63800E-06	9000.0	26000.0	0.0	10.87	0.00	2000.00	0.00	0.00	0.00	0.00
88013	2	0	0	0.17100E-06	12000.0	26000.0	0.0	9.47	0.00	2000.00	0.00	0.00	0.00	0.00
88014	2	0	0	0.16400E-06	44000.0	34000.0	0.0	9.04	0.00	4000.00	0.00	0.00	0.00	0.00
88015	2	0	0	0.33200E-07	23000.0	2000.0	0.0	10.80	0.00	2000.00	0.00	0.00	0.00	0.00
88016	2	0	0	0.16300E-07	25000.0	2000.0	0.0	9.69	0.00	3000.00	0.00	0.00	0.00	0.00
90007	2	0	0	0.21600E-06	7000.0	43000.0	0.0	9.09	0.00	4000.00	0.00	0.00	0.00	0.00
90015	2	0	0	0.25400E-06	10000.0	31000.0	0.0	10.73	0.00	2000.00	0.00	0.00	0.00	0.00
90016	2	0	0	0.11500E-06	12000.0	31000.0	0.0	8.79	0.00	2000.00	0.00	0.00	0.00	0.00
90035	2	0	0	0.50000E-09	24000.0	3000.0	0.0	7.62	0.00	2000.00	0.00	0.00	0.00	0.00
90041	2	0	0	0.50600E-08	20000.0	-9000.0	0.0	13.27	0.00	4000.00	0.00	0.00	0.00	0.00
90042	2	0	0	0.68800E-09	26000.0	-9000.0	0.0	8.37	0.00	4000.00	0.00	0.00	0.00	0.00
90043	2	0	0	0.15600E-08	17000.0	-12000.0	0.0	8.99	0.00	3000.00	0.00	0.00	0.00	0.00
90044	2	0	0	0.50000E-08	20000.0	-11000.0	0.0	11.34	0.00	2000.00	0.00	0.00	0.00	0.00
90046	2	0	0	0.18900E-08	30000.0	-11000.0	0.0	9.70	0.00	3000.00	0.00	0.00	0.00	0.00
90047	2	0	0	0.13800E-08	39000.0	-8000.0	0.0	4.06	0.00	4000.00	0.00	0.00	0.00	0.00
95001	2	0	0	0.59800E-07	8000.0	62000.0	0.0	10.83	0.00	4000.00	0.00	0.00	0.00	0.00
95002	2	0	0	0.51400E-07	10000.0	56000.0	0.0	10.12	0.00	3000.00	0.00	0.00	0.00	0.00
95003	2	0	0	0.25500E-06	17000.0	56000.0	0.0	11.22	0.00	2000.00	0.00	0.00	0.00	0.00
95004	2	0	0	0.91900E-06	26000.0	56000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95005	2	0	0	0.15000E-06	17000.0	52000.0	0.0	8.23	0.00	3000.00	0.00	0.00	0.00	0.00
95006	2	0	0	0.36200E-06	13000.0	47000.0	0.0	9.35	0.00	4000.00	0.00	0.00	0.00	0.00
95007	2	0	0	0.39500E-06	7000.0	43000.0	0.0	34.51	0.00	4000.00	0.00	0.00	0.00	0.00
95008	2	0	0	0.10600E-05	13000.0	45000.0	0.0	17.41	0.00	2000.00	0.00	0.00	0.00	0.00

*** BIG STICK FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
95009	2	0	0	0.40400E-06	6000.0	41000.0	0.0	10.74	0.00	2000.00	0.00	0.00	0.00	0.00
95010	2	0	0	0.20300E-06	8000.0	38000.0	0.0	14.90	0.00	4000.00	0.00	0.00	0.00	0.00
95011	2	0	0	0.56700E-06	12000.0	37000.0	0.0	12.33	0.00	4000.00	0.00	0.00	0.00	0.00
95012	2	0	0	0.10700E-05	2000.0	35000.0	0.0	14.44	0.00	2000.00	0.00	0.00	0.00	0.00
95013	2	0	0	0.26500E-06	6000.0	34000.0	0.0	10.12	0.00	4000.00	0.00	0.00	0.00	0.00
95014	2	0	0	0.69700E-06	12000.0	33000.0	0.0	13.33	0.00	4000.00	0.00	0.00	0.00	0.00
95016	2	0	0	0.91500E-07	12000.0	31000.0	0.0	10.58	0.00	2000.00	0.00	0.00	0.00	0.00
95017	2	0	0	0.57200E-06	14000.0	31000.0	0.0	10.61	0.00	2000.00	0.00	0.00	0.00	0.00
95018	2	0	0	0.32500E-06	12000.0	29000.0	0.0	9.66	0.00	2000.00	0.00	0.00	0.00	0.00
95019	2	0	0	0.28900E-06	14000.0	29000.0	0.0	9.42	0.00	2000.00	0.00	0.00	0.00	0.00
95020	2	0	0	0.48700E-06	47000.0	41000.0	0.0	10.38	0.00	5000.00	0.00	0.00	0.00	0.00
95021	2	0	0	0.47900E-06	47000.0	39000.0	0.0	10.28	0.00	2000.00	0.00	0.00	0.00	0.00
95022	2	0	0	0.16700E-06	42000.0	33000.0	0.0	9.79	0.00	4000.00	0.00	0.00	0.00	0.00
95023	2	0	0	0.65000E-06	46000.0	34000.0	0.0	10.51	0.00	4000.00	0.00	0.00	0.00	0.00
95024	2	0	0	0.49200E-06	50000.0	34000.0	0.0	9.64	0.00	4000.00	0.00	0.00	0.00	0.00
95025	2	0	0	0.87800E-06	45000.0	27000.0	0.0	12.16	0.00	3000.00	0.00	0.00	0.00	0.00
95026	2	0	0	0.80600E-06	47000.0	15000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95027	2	0	0	0.29500E-06	25000.0	21000.0	0.0	13.03	0.00	2000.00	0.00	0.00	0.00	0.00
95028	2	0	0	0.20400E-06	26000.0	19000.0	0.0	10.78	0.00	2000.00	0.00	0.00	0.00	0.00
95029	2	0	0	0.36300E-06	26000.0	17000.0	0.0	11.40	0.00	2000.00	0.00	0.00	0.00	0.00
95030	2	0	0	0.23200E-06	26000.0	15000.0	0.0	12.51	0.00	2000.00	0.00	0.00	0.00	0.00
95031	2	0	0	0.22700E-06	26000.0	13000.0	0.0	11.87	0.00	2000.00	0.00	0.00	0.00	0.00
95032	2	0	0	0.81500E-07	25000.0	9000.0	0.0	9.67	0.00	2000.00	0.00	0.00	0.00	0.00
95033	2	0	0	0.83300E-07	25000.0	7000.0	0.0	10.93	0.00	2000.00	0.00	0.00	0.00	0.00
95034	2	0	0	0.46300E-07	24000.0	5000.0	0.0	10.95	0.00	2000.00	0.00	0.00	0.00	0.00
95035	2	0	0	0.30000E-07	24000.0	3000.0	0.0	9.85	0.00	2000.00	0.00	0.00	0.00	0.00
95036	2	0	0	0.27300E-07	24000.0	1000.0	0.0	6.17	0.00	2000.00	0.00	0.00	0.00	0.00
95037	2	0	0	0.48800E-07	15000.0	7000.0	0.0	11.38	0.00	2000.00	0.00	0.00	0.00	0.00
95038	2	0	0	0.34500E-07	17000.0	7000.0	0.0	8.23	0.00	2000.00	0.00	0.00	0.00	0.00
95039	2	0	0	0.83500E-07	16000.0	5000.0	0.0	13.27	0.00	2000.00	0.00	0.00	0.00	0.00
95040	2	0	0	0.22700E-07	18000.0	5000.0	0.0	7.95	0.00	2000.00	0.00	0.00	0.00	0.00
95042	2	0	0	0.25000E-09	26000.0	-9000.0	0.0	8.37	0.00	4000.00	0.00	0.00	0.00	0.00
95045	2	0	0	0.45600E-08	25000.0	-13000.0	0.0	5.56	0.00	3000.00	0.00	0.00	0.00	0.00
95046	2	0	0	0.66700E-09	30000.0	-11000.0	0.0	6.11	0.00	3000.00	0.00	0.00	0.00	0.00
95047	2	0	0	0.35000E-08	39000.0	-8000.0	0.0	8.67	0.00	4000.00	0.00	0.00	0.00	0.00
99501	0	0	0	0.28400E+02	34200.0	20100.0	0.0	30.50	866.00	15.00	1.10	0.00	0.00	0.00
99502	0	0	0	0.53800E+02	43800.0	39700.0	0.0	59.50	870.00	10.00	1.80	0.00	0.00	0.00

Buffalo Wallow Field

Figure B-5
Buffalo Wallow Field
Locations of Existing SO_2 Point and Area Sources

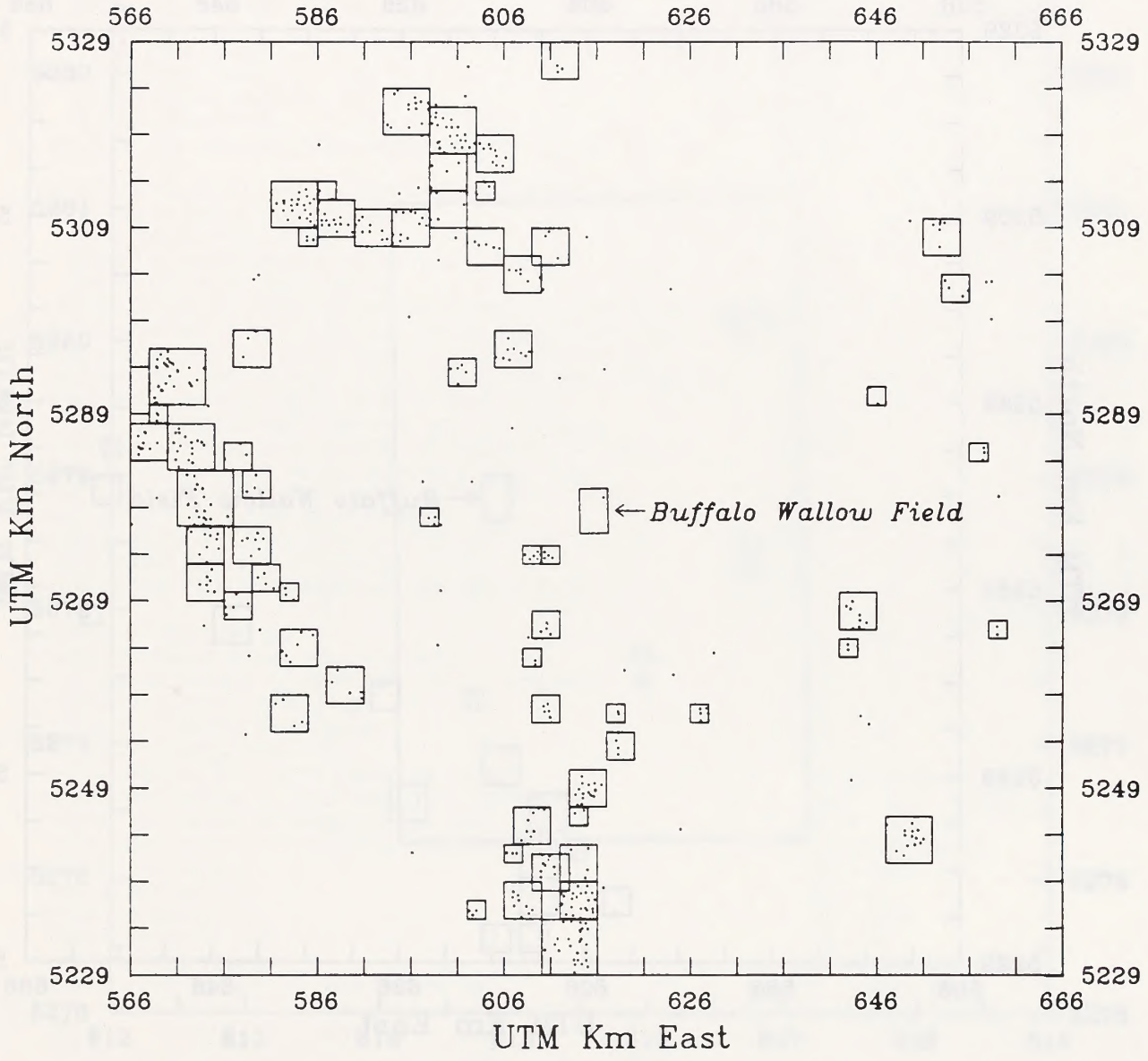


Figure B-6
Buffalo Wallow Field
Locations of Future SO_2 Point and Area Sources

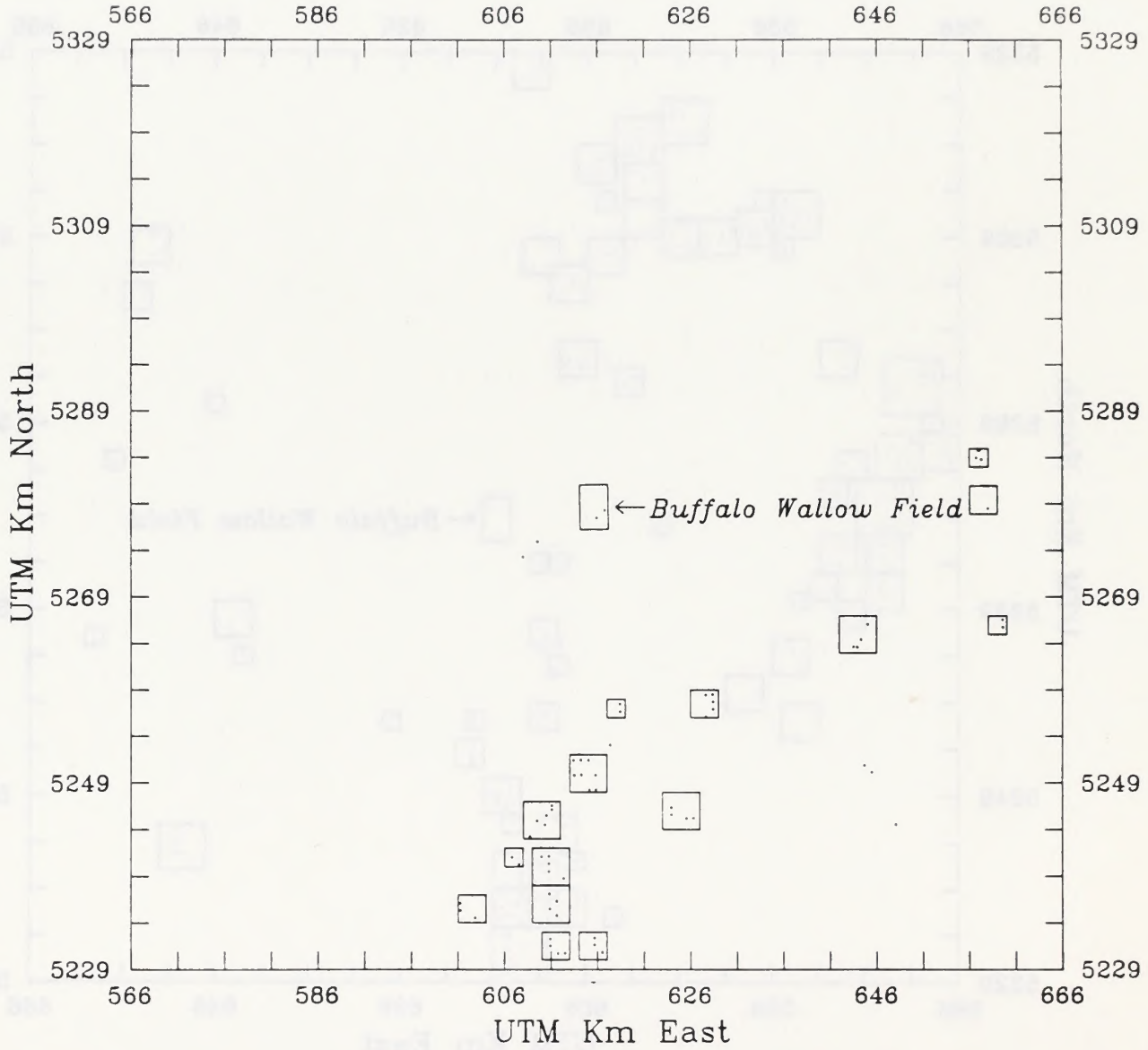


Figure B-7
Buffalo Wallow Field
Locations of Study-Field SO_2 Sources

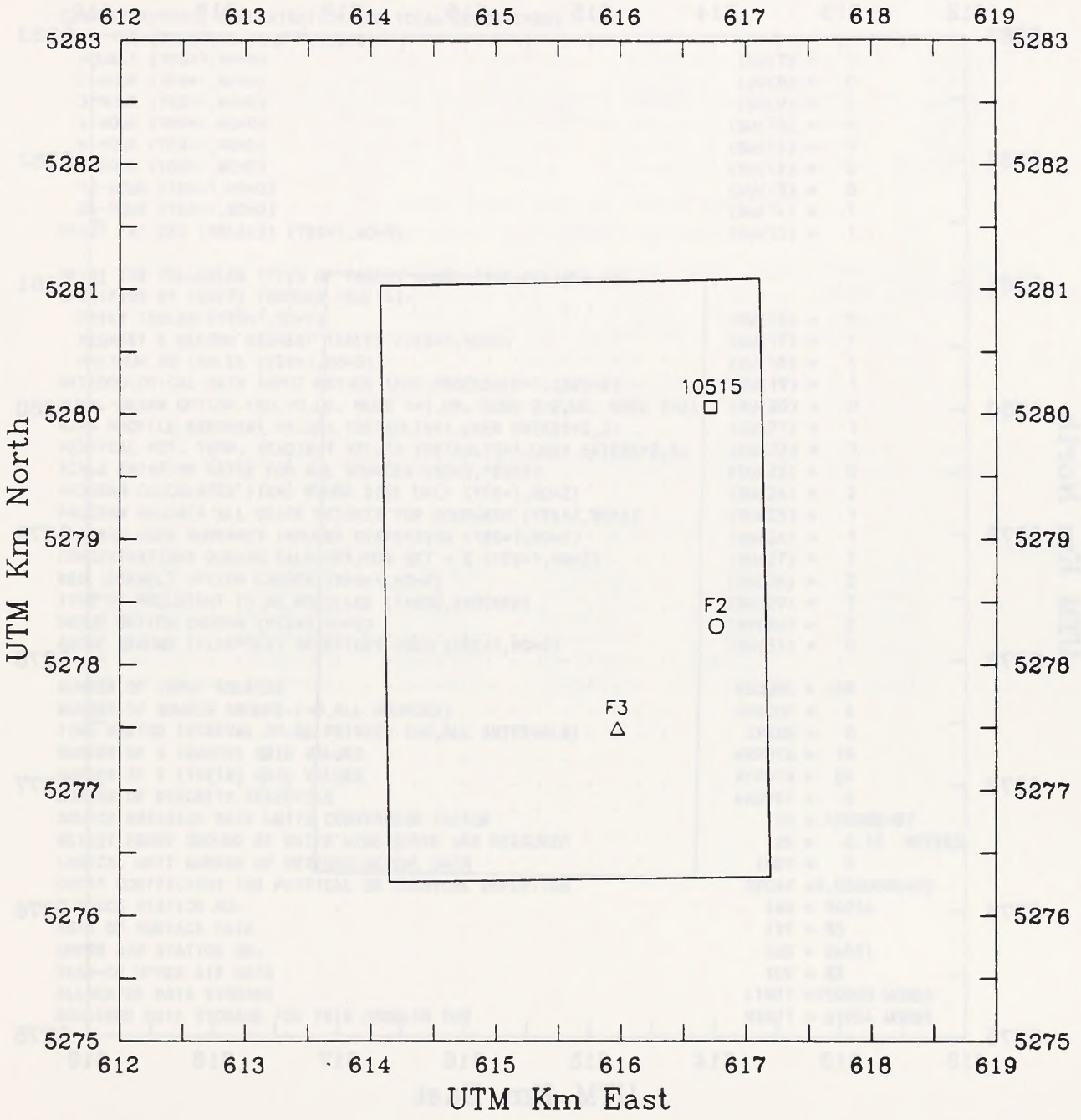
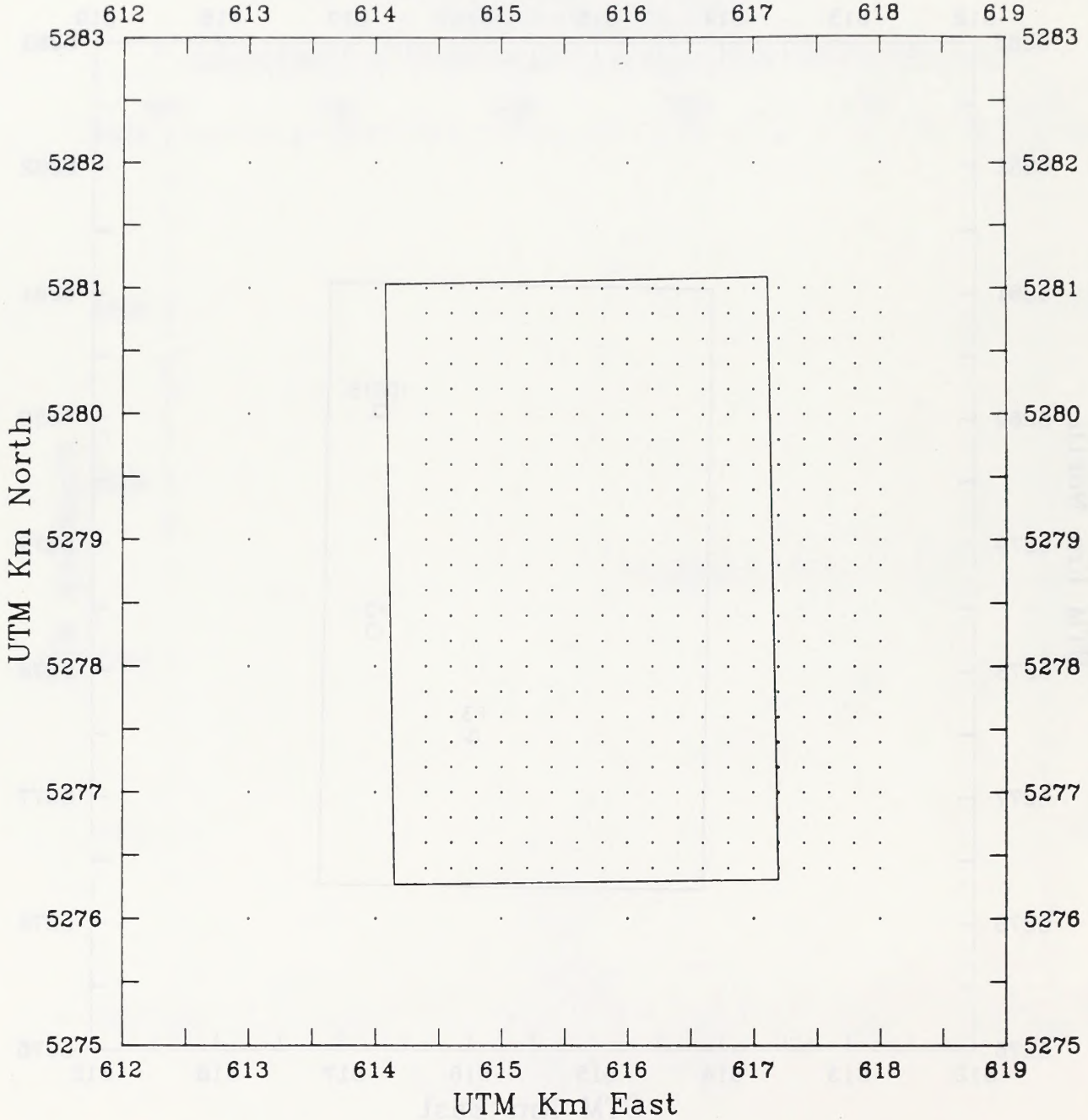


Figure B-8
Buffalo Wallow Field
ISCST Receptor Locations



*** BUFFALO WALLOW FIELD SO2 - RECEPTOR GROUP 1 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 169
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 4
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 19
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 24
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 81054 WORDS

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***            BUFFALO WALLOW FIELD SO2 - RECEPTOR GROUP 1            ***

                  *** METEOROLOGICAL DAYS TO BE PROCESSED ***
                                  (IF=1)

1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 0

          *** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
                                  (NSOGRP)

   4,    6,    2,    6,

                  *** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
                                  (IDSOR)

     1,-79999, 90001,-99999, 40001,-79999, 95001,-98999, 99501,-99999,      1,-99999, 40001,-89999,
 95001,-98999, 99501,-99999,

          *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                (METERS/SEC)

                         1.54,   3.09,   5.14,   8.23,  10.80,

                        *** WIND PROFILE EXPONENTS ***

 STABILITY                              WIND SPEED CATEGORY
 CATEGORY          1              2              3              4              5              6
    A         .70000E-01     .70000E-01     .70000E-01     .70000E-01     .70000E-01     .70000E-01
    B         .70000E-01     .70000E-01     .70000E-01     .70000E-01     .70000E-01     .70000E-01
    C         .10000E+00     .10000E+00     .10000E+00     .10000E+00     .10000E+00     .10000E+00
    D         .15000E+00     .15000E+00     .15000E+00     .15000E+00     .15000E+00     .15000E+00
    E         .35000E+00     .35000E+00     .35000E+00     .35000E+00     .35000E+00     .35000E+00
    F         .55000E+00     .55000E+00     .55000E+00     .55000E+00     .55000E+00     .55000E+00
```

*** BUFFALO WALLOW FIELD SO2 - RECEPTOR GROUP 1 ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

14400.0, 14600.0, 14800.0, 15000.0, 15200.0, 15400.0, 15600.0, 15800.0, 16000.0, 16200.0,
16400.0, 16600.0, 16800.0, 17000.0, 17200.0, 17400.0, 17600.0, 17800.0, 18000.0,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

-23600.0, -23400.0, -23200.0, -23000.0, -22800.0, -22600.0, -22400.0, -22200.0, -22000.0, -21800.0,
-21600.0, -21400.0, -21200.0, -21000.0, -20800.0, -20600.0, -20400.0, -20200.0, -20000.0, -19800.0,
-19600.0, -19400.0, -19200.0, -19000.0,

*** BUFFALO WALLOW FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
5512	0	0	0	0.42400E+00	59139.0	-19752.0	0.0	6.71	1000.00	0.93	0.30	0.00	0.00	0.00
5774	0	0	0	0.10000E-02	11996.0	-7138.0	0.0	6.71	1000.00	2.67	0.30	0.00	0.00	0.00
6205	0	0	0	0.31200E+00	45213.0	-44061.0	0.0	6.71	1000.00	2.42	0.30	0.00	0.00	0.00
25512	0	0	0	0.96480E+01	59139.0	-19752.0	0.0	12.19	1000.00	21.09	0.30	0.00	0.00	0.00
25774	0	0	0	0.10000E-02	11996.0	-7138.0	0.0	0.30	1000.00	2.67	0.30	0.00	0.00	0.00
26205	0	0	0	0.21580E+01	45213.0	-44061.0	0.0	6.10	1000.00	16.76	0.30	0.00	0.00	0.00
46959	0	0	0	0.34700E+00	24971.0	-55351.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
47206	0	0	0	0.14300E+00	-21693.0	-45256.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47337	0	0	0	0.10170E+01	28527.0	-36460.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
47423	0	0	0	0.19900E+00	-26133.0	-33616.0	0.0	6.71	1000.00	4.91	0.30	0.00	0.00	0.00
47478	0	0	0	0.60000E-02	-2686.0	-18255.0	0.0	6.71	1000.00	2.61	0.30	0.00	0.00	0.00
47511	0	0	0	0.14000E-01	-749.0	-22827.0	0.0	6.71	1000.00	6.09	0.30	0.00	0.00	0.00
47610	0	0	0	0.51000E-01	-23504.0	-23135.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47795	0	0	0	0.50000E-02	1851.0	23157.0	0.0	6.71	1000.00	0.73	0.30	0.00	0.00	0.00
47823	0	0	0	0.16400E+00	18934.0	-38332.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48238	0	0	0	0.76000E-01	-13021.0	-39517.0	0.0	6.71	1000.00	1.88	0.30	0.00	0.00	0.00
48372	0	0	0	0.50300E+00	16789.0	-6236.0	0.0	6.71	1000.00	3.20	0.30	0.00	0.00	0.00
48404	0	0	0	0.13550E+01	-21294.0	-36831.0	0.0	6.71	1000.00	49.61	0.30	0.00	0.00	0.00
48530	0	0	0	0.15800E+00	-4193.0	-591.0	0.0	6.40	1000.00	13.61	0.30	0.00	0.00	0.00
48580	0	0	0	0.20300E+00	-20172.0	-34038.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
48717	0	0	0	0.30000E-02	2546.0	-18172.0	0.0	6.71	1000.00	2.80	0.30	0.00	0.00	0.00
48726	0	0	0	0.10510E+01	43298.0	-50155.0	0.0	7.62	1000.00	9.30	0.30	0.00	0.00	0.00
48737	0	0	0	0.11100E+00	-805.0	-29849.0	0.0	8.53	1000.00	3.54	0.30	0.00	0.00	0.00
48795	0	0	0	0.10000E-02	-6384.0	11031.0	0.0	6.71	1000.00	3.73	0.30	0.00	0.00	0.00
48973	0	0	0	0.80000E-02	-5208.0	12660.0	0.0	6.71	1000.00	10.84	0.30	0.00	0.00	0.00
48992	0	0	0	0.41000E-01	-25699.0	-10119.0	0.0	6.71	1000.00	6.71	0.30	0.00	0.00	0.00
49300	0	0	0	0.74500E+00	10204.0	2367.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
49309	0	0	0	0.60000E-02	2153.0	26315.0	0.0	6.71	1000.00	14.68	0.30	0.00	0.00	0.00
49641	0	0	0	0.66100E+00	16660.0	-61640.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49681	0	0	0	0.10000E-02	-3208.0	13298.0	0.0	7.32	1000.00	0.64	0.30	0.00	0.00	0.00
49698	0	0	0	0.14000E-01	-1057.0	5500.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
49702	0	0	0	0.14000E-01	-20838.0	3436.0	0.0	7.62	1000.00	2.69	0.30	0.00	0.00	0.00
49799	0	0	0	0.10500E+00	44293.0	-43319.0	0.0	6.71	1000.00	0.81	0.30	0.00	0.00	0.00
49900	0	0	0	0.66100E+00	11543.0	-63959.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49959	0	0	0	0.51000E-01	-1342.0	22247.0	0.0	6.71	1000.00	4.66	0.30	0.00	0.00	0.00
50463	0	0	0	0.21000E-01	-20295.0	3922.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50515	0	0	0	0.19000E+00	16367.0	-19754.0	0.0	9.45	1000.00	5.78	0.30	0.00	0.00	0.00
50951	0	0	0	0.20000E-02	-1114.0	-35652.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
51313	0	0	0	0.14100E+00	24187.0	-38863.0	0.0	6.71	1000.00	5.49	0.30	0.00	0.00	0.00

*** BUFFALO WALLOW FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
51495	0	0	0	0.40000E-02	-13863.0	17942.0	0.0	6.71	1000.00	4.47	0.30	0.00	0.00	0.00
51664	0	0	0	0.23000E-01	8587.0	-34858.0	0.0	7.62	1000.00	0.83	0.30	0.00	0.00	0.00
51762	0	0	0	0.30000E-02	810.0	7933.0	0.0	6.71	1000.00	2.77	0.30	0.00	0.00	0.00
55193	0	0	0	0.28000E-01	-31187.0	-19942.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
55584	0	0	0	0.60000E-02	-33867.0	-22752.0	0.0	6.71	1000.00	11.16	0.30	0.00	0.00	0.00
66959	0	0	0	0.83650E+01	24971.0	-55351.0	0.0	6.10	1000.00	55.41	0.30	0.00	0.00	0.00
67337	0	0	0	0.13920E+01	28527.0	-36460.0	0.0	6.10	1000.00	14.42	0.30	0.00	0.00	0.00
67823	0	0	0	0.15370E+01	18934.0	-38332.0	0.0	3.05	1000.00	58.12	0.30	0.00	0.00	0.00
68083	0	0	0	0.20000E-02	58362.0	-811.0	0.0	0.30	1000.00	0.73	0.30	0.00	0.00	0.00
68301	0	0	0	0.10000E-02	57805.0	3179.0	0.0	0.30	1000.00	0.46	0.30	0.00	0.00	0.00
68530	0	0	0	0.38600E+00	-4193.0	-591.0	0.0	1.52	1000.00	33.37	0.30	0.00	0.00	0.00
68717	0	0	0	0.18000E-01	2546.0	-18172.0	0.0	0.30	1000.00	17.91	0.30	0.00	0.00	0.00
68726	0	0	0	0.97100E+00	43298.0	-50155.0	0.0	3.05	1000.00	8.60	0.30	0.00	0.00	0.00
68992	0	0	0	0.24000E-01	-25699.0	-10119.0	0.0	3.05	1000.00	3.85	0.30	0.00	0.00	0.00
70515	0	0	0	0.11700E+00	16343.0	-19724.0	0.0	6.71	1000.00	3.54	0.30	0.00	0.00	0.00
70816	0	0	0	0.13300E+00	6848.0	-12407.0	0.0	0.30	1000.00	5.42	0.30	0.00	0.00	0.00
71313	0	0	0	0.13200E+00	24187.0	-38863.0	0.0	3.05	1000.00	5.14	0.30	0.00	0.00	0.00
71401	0	0	0	0.30000E-02	49608.0	9692.0	0.0	3.05	1000.00	0.07	0.30	0.00	0.00	0.00
71407	0	0	0	0.10000E-02	-2858.0	18911.0	0.0	3.05	1000.00	0.16	0.30	0.00	0.00	0.00
71495	0	0	0	0.20000E-02	-13863.0	17942.0	0.0	0.30	1000.00	2.05	0.30	0.00	0.00	0.00
71926	0	0	0	0.26000E-01	23895.0	2382.0	0.0	6.10	1000.00	0.15	0.30	0.00	0.00	0.00
71980	0	0	0	0.10000E-01	14921.0	7966.0	0.0	3.05	1000.00	0.51	0.30	0.00	0.00	0.00
72052	0	0	0	0.32000E-01	58394.0	3307.0	0.0	7.62	1000.00	2.10	0.30	0.00	0.00	0.00
75193	0	0	0	0.11000E-01	-31187.0	-19942.0	0.0	0.30	1000.00	1.86	0.30	0.00	0.00	0.00
80301	0	0	0	0.64500E+00	44699.0	-49120.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80302	0	0	0	0.64500E+00	45514.0	-49889.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80503	0	0	0	0.31100E+00	17349.0	-46969.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80703	0	0	0	0.19000E+00	15969.0	-22505.0	0.0	6.71	1000.00	5.78	0.30	0.00	0.00	0.00
82001	0	0	0	0.12600E+00	9559.0	-25037.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
82002	0	0	0	0.12600E+00	7990.0	-26672.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
85304	0	0	0	0.34300E+00	48064.0	-55450.0	0.0	3.05	1000.00	2.71	0.30	0.00	0.00	0.00
85503	0	0	0	0.33700E+00	17373.0	-46945.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85702	0	0	0	0.11700E+00	16763.0	-21685.0	0.0	3.05	1000.00	3.54	0.30	0.00	0.00	0.00
88001	2	0	0	0.17300E-05	56000.0	-17000.0	0.0	16.77	0.00	2000.00	0.00	0.00	0.00	0.00
88002	2	0	0	0.14000E-05	56000.0	-22000.0	0.0	20.14	0.00	3000.00	0.00	0.00	0.00	0.00
88003	2	0	0	0.60400E-06	42000.0	-37000.0	0.0	15.95	0.00	4000.00	0.00	0.00	0.00	0.00
88004	2	0	0	0.25300E-05	58000.0	-35000.0	0.0	13.08	0.00	2000.00	0.00	0.00	0.00	0.00
88005	2	0	0	0.24000E-06	17000.0	-44000.0	0.0	9.34	0.00	2000.00	0.00	0.00	0.00	0.00
88006	2	0	0	0.40900E-06	26000.0	-44000.0	0.0	11.75	0.00	3000.00	0.00	0.00	0.00	0.00

*** BUFFALO WALLOW FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
88007	2	0	0	0.71100E-06	13000.0	-52000.0	0.0	11.06	0.00	4000.00	0.00	0.00	0.00	0.00
88008	2	0	0	0.24300E-06	8000.0	-57000.0	0.0	8.79	0.00	4000.00	0.00	0.00	0.00	0.00
88009	2	0	0	0.25200E-05	23000.0	-56000.0	0.0	38.99	0.00	4000.00	0.00	0.00	0.00	0.00
88010	2	0	0	0.26800E-06	6000.0	-60000.0	0.0	10.23	0.00	2000.00	0.00	0.00	0.00	0.00
88011	2	0	0	0.22200E-06	9000.0	-62000.0	0.0	12.71	0.00	4000.00	0.00	0.00	0.00	0.00
88012	2	0	0	0.47600E-06	1000.0	-66000.0	0.0	14.22	0.00	3000.00	0.00	0.00	0.00	0.00
88013	2	0	0	0.10700E-06	9000.0	-66000.0	0.0	9.87	0.00	4000.00	0.00	0.00	0.00	0.00
88014	2	0	0	0.14600E-06	10000.0	-70000.0	0.0	9.67	0.00	3000.00	0.00	0.00	0.00	0.00
88015	2	0	0	0.11400E-06	14000.0	-70000.0	0.0	9.47	0.00	3000.00	0.00	0.00	0.00	0.00
90019	2	0	0	0.20300E-08	-32000.0	-10000.0	0.0	11.57	0.00	6000.00	0.00	0.00	0.00	0.00
90021	2	0	0	0.52500E-08	-32000.0	-12000.0	0.0	8.42	0.00	2000.00	0.00	0.00	0.00	0.00
90022	2	0	0	0.25000E-09	-34000.0	-16000.0	0.0	11.24	0.00	4000.00	0.00	0.00	0.00	0.00
90023	2	0	0	0.15600E-08	-30000.0	-17000.0	0.0	12.43	0.00	5000.00	0.00	0.00	0.00	0.00
90025	2	0	0	0.91900E-08	-29000.0	-23000.0	0.0	9.95	0.00	6000.00	0.00	0.00	0.00	0.00
90027	2	0	0	0.83800E-08	-28000.0	-27000.0	0.0	10.26	0.00	4000.00	0.00	0.00	0.00	0.00
90028	2	0	0	0.14900E-07	-23000.0	-27000.0	0.0	10.26	0.00	4000.00	0.00	0.00	0.00	0.00
90030	2	0	0	0.14900E-07	-24000.0	-33000.0	0.0	10.26	0.00	3000.00	0.00	0.00	0.00	0.00
90033	2	0	0	0.83800E-08	-18000.0	-38000.0	0.0	10.26	0.00	4000.00	0.00	0.00	0.00	0.00
90034	2	0	0	0.33800E-08	-13000.0	-42000.0	0.0	7.05	0.00	4000.00	0.00	0.00	0.00	0.00
90036	2	0	0	0.20800E-07	-3000.0	-23000.0	0.0	14.54	0.00	2000.00	0.00	0.00	0.00	0.00
90038	2	0	0	0.87800E-08	53000.0	1000.0	0.0	17.92	0.00	3000.00	0.00	0.00	0.00	0.00
90039	2	0	0	0.15300E-06	45000.0	-10000.0	0.0	13.63	0.00	2000.00	0.00	0.00	0.00	0.00
90040	2	0	0	0.21100E-06	56000.0	-16000.0	0.0	8.33	0.00	2000.00	0.00	0.00	0.00	0.00
90043	2	0	0	0.25300E-05	58000.0	-35000.0	0.0	12.48	0.00	2000.00	0.00	0.00	0.00	0.00
90045	2	0	0	0.14900E-06	8000.0	-27000.0	0.0	10.50	0.00	2000.00	0.00	0.00	0.00	0.00
90046	2	0	0	0.19800E-06	10000.0	-27000.0	0.0	12.53	0.00	2000.00	0.00	0.00	0.00	0.00
90055	2	0	0	0.21600E-06	7000.0	-57000.0	0.0	9.09	0.00	4000.00	0.00	0.00	0.00	0.00
90062	2	0	0	0.41000E-07	10000.0	-71000.0	0.0	10.16	0.00	6000.00	0.00	0.00	0.00	0.00
95001	2	0	0	0.26300E-07	10000.0	25000.0	0.0	8.93	0.00	4000.00	0.00	0.00	0.00	0.00
95002	2	0	0	0.29400E-07	-7000.0	19000.0	0.0	11.11	0.00	5000.00	0.00	0.00	0.00	0.00
95003	2	0	0	0.19100E-07	-2000.0	17000.0	0.0	9.78	0.00	5000.00	0.00	0.00	0.00	0.00
95004	2	0	0	0.73100E-08	3000.0	15000.0	0.0	8.99	0.00	4000.00	0.00	0.00	0.00	0.00
95005	2	0	0	0.49200E-08	-19000.0	9000.0	0.0	10.43	0.00	5000.00	0.00	0.00	0.00	0.00
95006	2	0	0	0.50000E-08	-16000.0	7000.0	0.0	8.31	0.00	2000.00	0.00	0.00	0.00	0.00
95007	2	0	0	0.77500E-08	-14000.0	12000.0	0.0	14.51	0.00	2000.00	0.00	0.00	0.00	0.00
95008	2	0	0	0.53800E-08	-14000.0	8000.0	0.0	10.84	0.00	4000.00	0.00	0.00	0.00	0.00
95009	2	0	0	0.41200E-08	-10000.0	7000.0	0.0	8.68	0.00	4000.00	0.00	0.00	0.00	0.00
95010	2	0	0	0.46200E-08	-6000.0	7000.0	0.0	10.69	0.00	4000.00	0.00	0.00	0.00	0.00
95011	2	0	0	0.69400E-08	-2000.0	13000.0	0.0	16.94	0.00	4000.00	0.00	0.00	0.00	0.00

*** BUFFALO WALLOW FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
95012	2	0	0	0.20000E-08	-2000.0	9000.0	0.0	5.70	0.00	4000.00	0.00	0.00	0.00	0.00
95013	2	0	0	0.20000E-08	3000.0	12000.0	0.0	8.38	0.00	2000.00	0.00	0.00	0.00	0.00
95014	2	0	0	0.18400E-07	2000.0	5000.0	0.0	10.64	0.00	4000.00	0.00	0.00	0.00	0.00
95015	2	0	0	0.75600E-08	6000.0	2000.0	0.0	8.67	0.00	4000.00	0.00	0.00	0.00	0.00
95016	2	0	0	0.63800E-07	9000.0	5000.0	0.0	14.86	0.00	4000.00	0.00	0.00	0.00	0.00
95017	2	0	0	0.67700E-07	0.0	-8000.0	0.0	11.44	0.00	3000.00	0.00	0.00	0.00	0.00
95018	2	0	0	0.56400E-07	5000.0	-6000.0	0.0	11.61	0.00	4000.00	0.00	0.00	0.00	0.00
95019	2	0	0	0.22100E-06	-32000.0	-10000.0	0.0	13.88	0.00	6000.00	0.00	0.00	0.00	0.00
95020	2	0	0	0.30000E-08	-23000.0	-6000.0	0.0	8.19	0.00	4000.00	0.00	0.00	0.00	0.00
95021	2	0	0	0.10500E-07	-32000.0	-12000.0	0.0	8.42	0.00	2000.00	0.00	0.00	0.00	0.00
95022	2	0	0	0.53100E-06	-34000.0	-16000.0	0.0	15.35	0.00	4000.00	0.00	0.00	0.00	0.00
95023	2	0	0	0.58000E-07	-30000.0	-17000.0	0.0	10.39	0.00	5000.00	0.00	0.00	0.00	0.00
95024	2	0	0	0.10000E-07	-24000.0	-17000.0	0.0	8.42	0.00	3000.00	0.00	0.00	0.00	0.00
95025	2	0	0	0.36100E-07	-29000.0	-23000.0	0.0	9.83	0.00	6000.00	0.00	0.00	0.00	0.00
95026	2	0	0	0.44600E-07	-22000.0	-20000.0	0.0	11.29	0.00	3000.00	0.00	0.00	0.00	0.00
95027	2	0	0	0.67600E-07	-28000.0	-27000.0	0.0	9.56	0.00	4000.00	0.00	0.00	0.00	0.00
95028	2	0	0	0.50600E-07	-23000.0	-27000.0	0.0	9.92	0.00	4000.00	0.00	0.00	0.00	0.00
95029	2	0	0	0.94200E-07	-28000.0	-31000.0	0.0	11.46	0.00	4000.00	0.00	0.00	0.00	0.00
95030	2	0	0	0.87100E-07	-24000.0	-33000.0	0.0	11.56	0.00	3000.00	0.00	0.00	0.00	0.00
95031	2	0	0	0.65800E-07	-21000.0	-30000.0	0.0	10.21	0.00	3000.00	0.00	0.00	0.00	0.00
95032	2	0	0	0.19500E-06	-18000.0	-31000.0	0.0	11.73	0.00	2000.00	0.00	0.00	0.00	0.00
95033	2	0	0	0.38900E-07	-18000.0	-38000.0	0.0	8.32	0.00	4000.00	0.00	0.00	0.00	0.00
95034	2	0	0	0.71200E-07	-13000.0	-42000.0	0.0	11.60	0.00	4000.00	0.00	0.00	0.00	0.00
95035	2	0	0	0.26100E-07	-19000.0	-45000.0	0.0	8.42	0.00	4000.00	0.00	0.00	0.00	0.00
95037	2	0	0	0.71500E-07	51000.0	6000.0	0.0	9.37	0.00	4000.00	0.00	0.00	0.00	0.00
95038	2	0	0	0.18600E-07	53000.0	1000.0	0.0	7.78	0.00	3000.00	0.00	0.00	0.00	0.00
95040	2	0	0	0.14300E-05	56000.0	-16000.0	0.0	21.34	0.00	2000.00	0.00	0.00	0.00	0.00
95041	2	0	0	0.13200E-05	42000.0	-34000.0	0.0	11.94	0.00	4000.00	0.00	0.00	0.00	0.00
95042	2	0	0	0.34800E-05	42000.0	-37000.0	0.0	35.38	0.00	2000.00	0.00	0.00	0.00	0.00
95044	2	0	0	0.48700E-06	47000.0	-59000.0	0.0	10.38	0.00	5000.00	0.00	0.00	0.00	0.00
95045	2	0	0	0.32300E-07	8000.0	-27000.0	0.0	9.49	0.00	2000.00	0.00	0.00	0.00	0.00
95047	2	0	0	0.37700E-07	9000.0	-35000.0	0.0	8.62	0.00	3000.00	0.00	0.00	0.00	0.00
95048	2	0	0	0.18800E-06	8000.0	-38000.0	0.0	11.47	0.00	2000.00	0.00	0.00	0.00	0.00
95049	2	0	0	0.51400E-07	9000.0	-44000.0	0.0	10.12	0.00	3000.00	0.00	0.00	0.00	0.00
95050	2	0	0	0.25500E-06	17000.0	-44000.0	0.0	11.22	0.00	2000.00	0.00	0.00	0.00	0.00
95051	2	0	0	0.91900E-06	26000.0	-44000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95052	2	0	0	0.15000E-06	17000.0	-48000.0	0.0	8.23	0.00	3000.00	0.00	0.00	0.00	0.00
95053	2	0	0	0.36200E-06	13000.0	-53000.0	0.0	9.35	0.00	4000.00	0.00	0.00	0.00	0.00
95054	2	0	0	0.10600E-05	13000.0	-55000.0	0.0	17.41	0.00	2000.00	0.00	0.00	0.00	0.00

*** BUFFALO WALLOW FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	AWKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
95055	2	0	0	0.39500E-06	7000.0	-57000.0	0.0	34.51	0.00	4000.00	0.00	0.00	0.00	0.00
95056	2	0	0	0.40400E-06	6000.0	-59000.0	0.0	10.74	0.00	2000.00	0.00	0.00	0.00	0.00
95057	2	0	0	0.20300E-06	9000.0	-62000.0	0.0	14.90	0.00	4000.00	0.00	0.00	0.00	0.00
95058	2	0	0	0.15400E-06	12000.0	-61000.0	0.0	10.77	0.00	4000.00	0.00	0.00	0.00	0.00
95059	2	0	0	0.10700E-05	2000.0	-65000.0	0.0	14.44	0.00	2000.00	0.00	0.00	0.00	0.00
95060	2	0	0	0.26500E-06	6000.0	-65000.0	0.0	10.12	0.00	4000.00	0.00	0.00	0.00	0.00
95061	2	0	0	0.92000E-06	12000.0	-65000.0	0.0	13.31	0.00	4000.00	0.00	0.00	0.00	0.00
95062	2	0	0	0.23600E-06	10000.0	-71000.0	0.0	10.89	0.00	6000.00	0.00	0.00	0.00	0.00
99501	0	0	0	0.53800E+02	43800.0	-60300.0	0.0	59.50	870.00	10.00	1.80	0.00	0.00	0.00
99502	0	0	0	0.19000E+01	28904.0	-4568.0	0.0	13.90	440.00	19.50	0.40	0.00	0.00	0.00
99503	0	0	0	0.17600E+02	9000.0	-6000.0	0.0	61.00	477.00	10.20	1.20	0.00	0.00	0.00
99504	0	0	0	0.44800E+02	-30400.0	-19700.0	0.0	61.00	1000.00	56.20	0.20	0.00	0.00	0.00
99505	0	0	0	0.25000E+02	-29400.0	-20200.0	0.0	54.90	1000.00	99.40	0.10	0.00	0.00	0.00

Charlson Field

Figure B-9
Charlson Field
Locations of Existing SO_2 Point and Area Sources

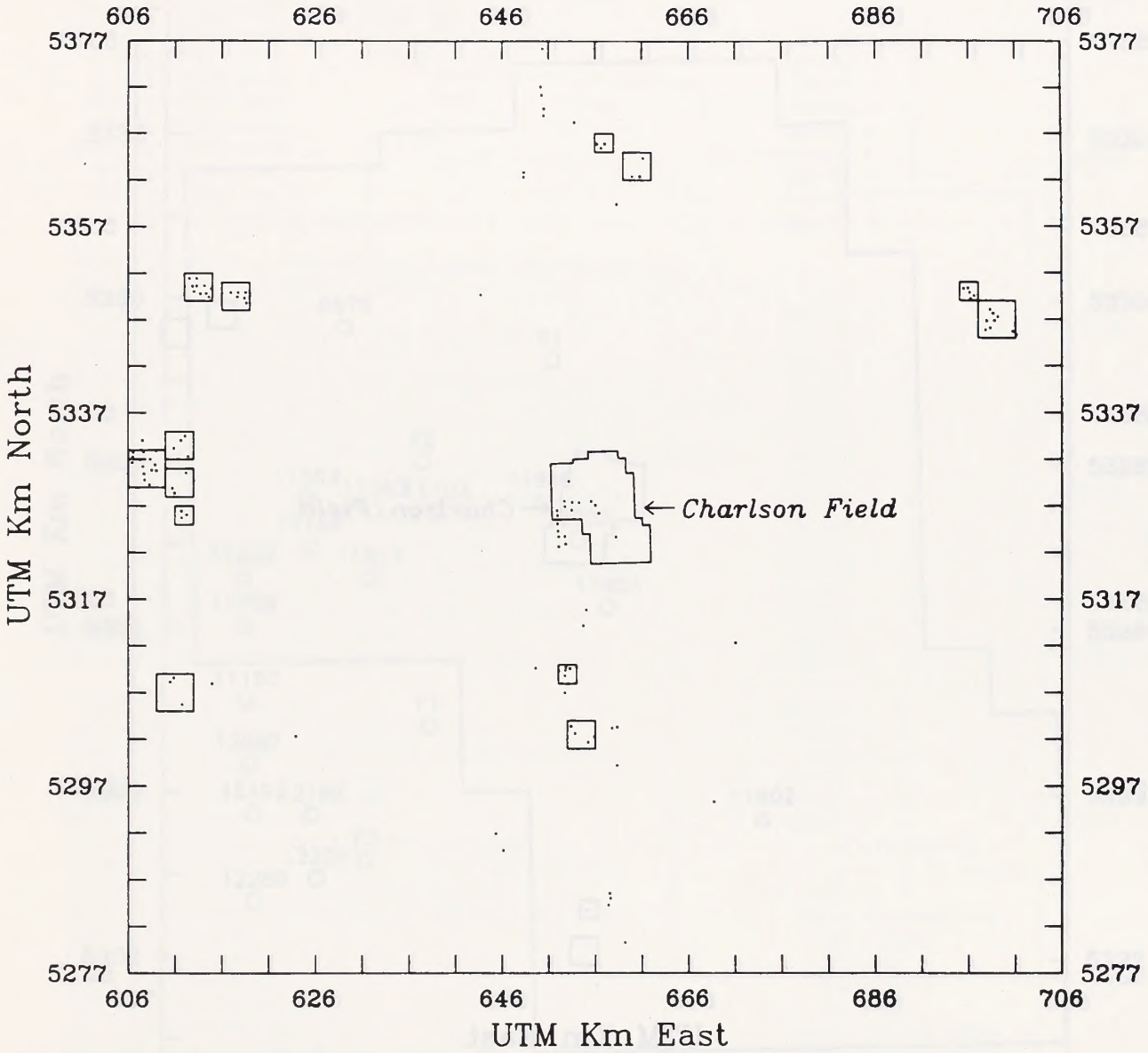


Figure B-10
Charlson Field
Locations of Future SO_2 Point and Area Sources

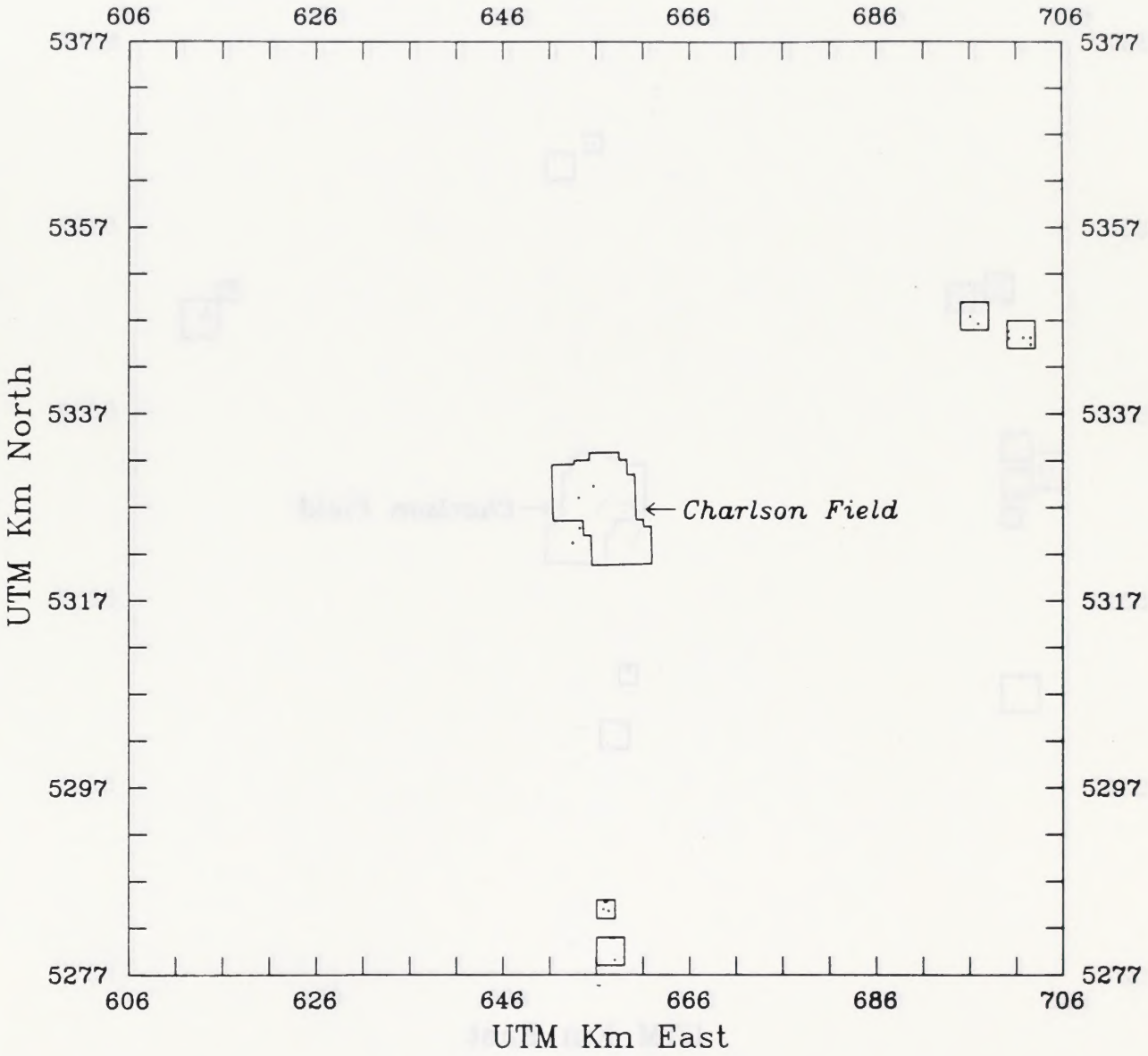


Figure B-11
Charlson Field
Locations of Study-Field SO_2 Sources

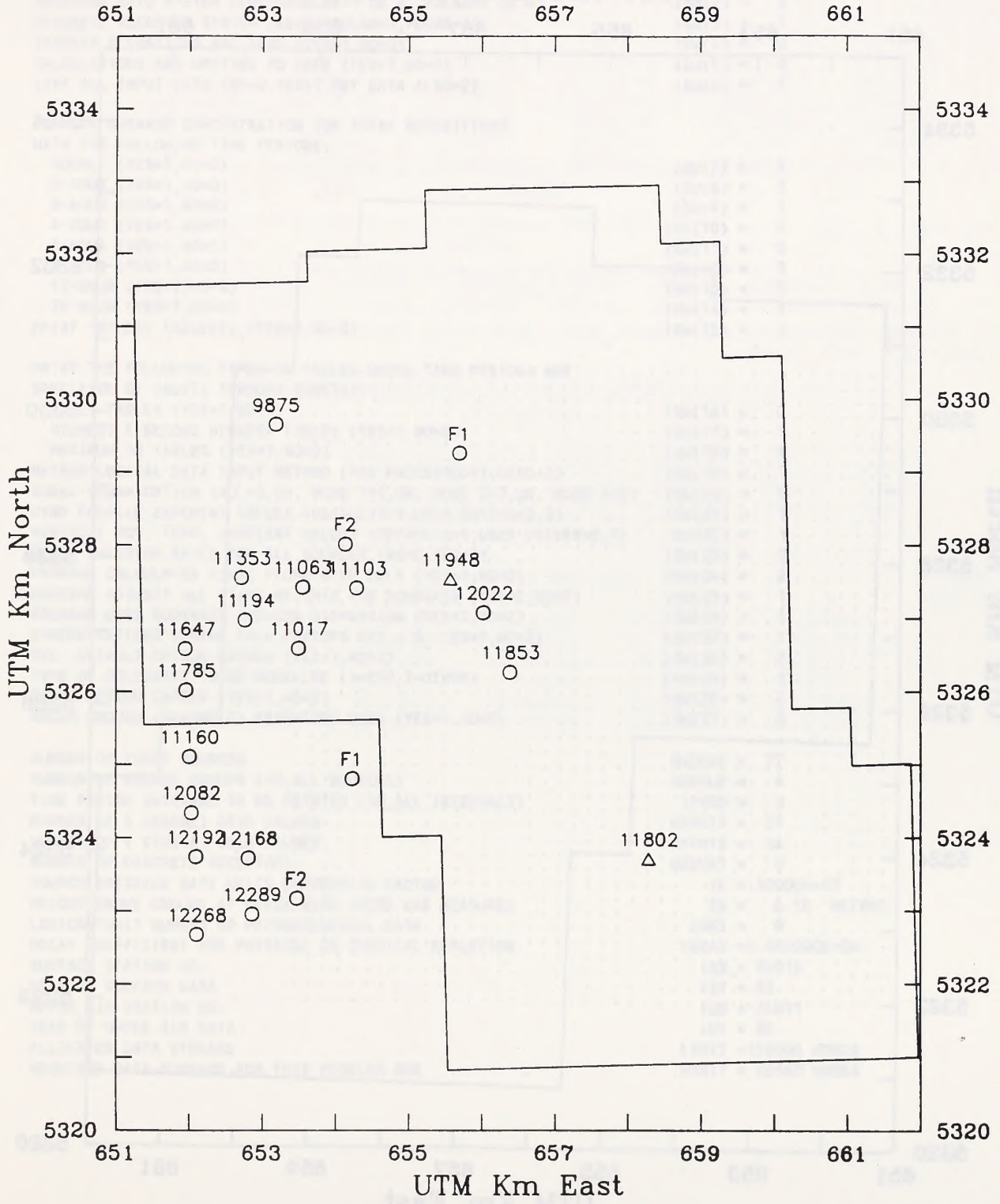
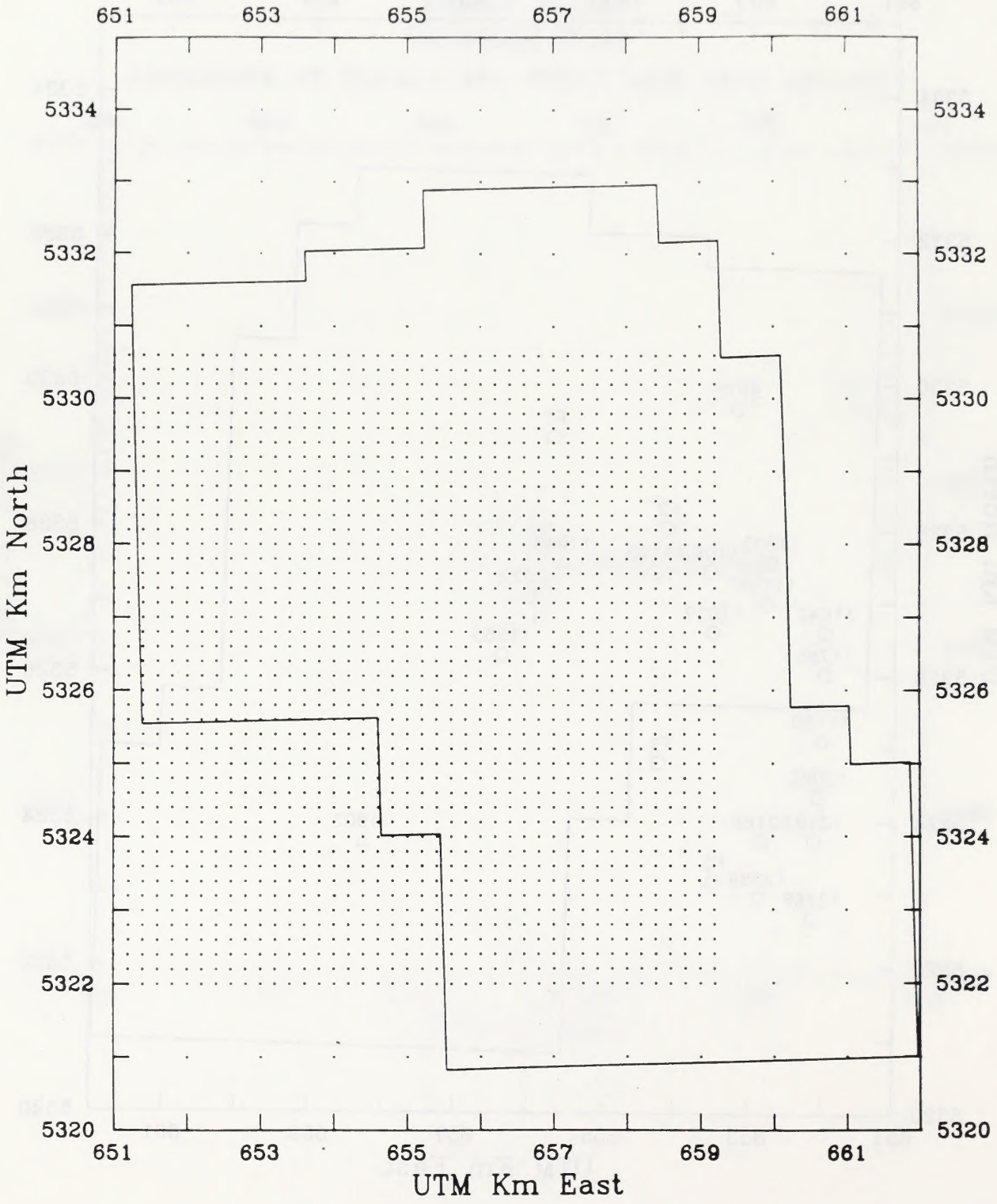


Figure B-12
Charlson Field
ISCST Receptor Locations



*** CHARLSON FIELD SO2 - RECEPTOR GROUP 1 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 77
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 4
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 21
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 44
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 85560 WORDS

*** CHARLSON FIELD SO2 - RECEPTOR GROUP 1 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 0
```

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

4, 6, 2, 6,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

1,-79999, 90001,-99999, 40001,-79999, 95001,-98999, 99501,-99999, 1,-99999, 40001,-89999,
95001,-98999, 99501,-99999,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** CHARLSON FIELD SO2 - RECEPTOR GROUP 1 ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

-49000.0, -48800.0, -48600.0, -48400.0, -48200.0, -48000.0, -47800.0, -47600.0, -47400.0, -47200.0,
-47000.0, -46800.0, -46600.0, -46400.0, -46200.0, -46000.0, -45800.0, -45600.0, -45400.0, -45200.0,
-45000.0,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

22000.0, 22200.0, 22400.0, 22600.0, 22800.0, 23000.0, 23200.0, 23400.0, 23600.0, 23800.0,
24000.0, 24200.0, 24400.0, 24600.0, 24800.0, 25000.0, 25200.0, 25400.0, 25600.0, 25800.0,
26000.0, 26200.0, 26400.0, 26600.0, 26800.0, 27000.0, 27200.0, 27400.0, 27600.0, 27800.0,
28000.0, 28200.0, 28400.0, 28600.0, 28800.0, 29000.0, 29200.0, 29400.0, 29600.0, 29800.0,
30000.0, 30200.0, 30400.0, 30600.0,

*** CHARLSON FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	AWK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
1469	0	0	0	0.17300E+00	-42570.0	-15764.0	0.0	6.71	1000.00	0.52	0.30	0.00	0.00	0.00
1606	0	0	0	0.14000E-01	-54685.0	-8064.0	0.0	6.71	1000.00	1.14	0.30	0.00	0.00	0.00
1971	0	0	0	0.67300E+00	-42396.0	-14988.0	0.0	6.71	1000.00	2.05	0.30	0.00	0.00	0.00
2274	0	0	0	0.23800E+00	-49648.0	76187.0	0.0	6.71	1000.00	6.09	0.30	0.00	0.00	0.00
3899	0	0	0	0.11100E+00	-49873.0	72059.0	0.0	6.71	1000.00	7.24	0.30	0.00	0.00	0.00
4085	0	0	0	0.39000E-01	-53869.0	-9897.0	0.0	6.71	1000.00	3.08	0.30	0.00	0.00	0.00
4342	0	0	0	0.11400E+00	-49749.0	71158.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
5512	0	0	0	0.42400E+00	-40861.0	-19752.0	0.0	6.71	1000.00	0.93	0.30	0.00	0.00	0.00
6323	0	0	0	0.30300E+00	-44934.0	15877.0	0.0	6.71	1000.00	4.60	0.30	0.00	0.00	0.00
21606	0	0	0	0.28800E+00	-54685.0	-8064.0	0.0	3.05	1000.00	22.60	0.30	0.00	0.00	0.00
22836	0	0	0	0.11000E-01	-45285.0	14212.0	0.0	3.05	1000.00	0.08	0.30	0.00	0.00	0.00
24085	0	0	0	0.27000E+00	-53869.0	-9897.0	0.0	3.05	1000.00	21.22	0.30	0.00	0.00	0.00
25512	0	0	0	0.96480E+01	-40861.0	-19752.0	0.0	12.19	1000.00	21.09	0.30	0.00	0.00	0.00
46823	0	0	0	0.26000E+00	-46239.0	68226.0	0.0	6.71	1000.00	5.09	0.30	0.00	0.00	0.00
46974	0	0	0	0.32300E+00	1124.0	45331.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
47673	0	0	0	0.14960E+01	-31276.0	-4678.0	0.0	6.71	1000.00	5.58	0.30	0.00	0.00	0.00
47699	0	0	0	0.96000E-01	-41707.0	59392.0	0.0	6.71	1000.00	2.09	0.30	0.00	0.00	0.00
48137	0	0	0	0.12000E-01	-92440.0	34029.0	0.0	6.71	1000.00	0.32	0.30	0.00	0.00	0.00
50227	0	0	0	0.32000E-01	-47250.0	6970.0	0.0	6.71	1000.00	9.61	0.30	0.00	0.00	0.00
50328	0	0	0	0.59900E+00	-49486.0	69693.0	0.0	6.71	1000.00	4.76	0.30	0.00	0.00	0.00
50493	0	0	0	0.16300E+00	-56268.0	49687.0	0.0	6.40	1000.00	1.94	0.30	0.00	0.00	0.00
51126	0	0	0	0.40000E-02	-51702.0	62829.0	0.0	6.71	1000.00	4.94	0.30	0.00	0.00	0.00
51405	0	0	0	0.88900E+00	-49505.0	68937.0	0.0	6.71	1000.00	7.59	0.30	0.00	0.00	0.00
51802	0	0	0	0.16900E+00	-41672.0	23700.0	0.0	3.96	1000.00	6.57	0.30	0.00	0.00	0.00
51842	0	0	0	0.30000E-01	-51686.0	62311.0	0.0	6.71	1000.00	4.95	0.30	0.00	0.00	0.00
51948	0	0	0	0.11300E+00	-44420.0	27537.0	0.0	6.71	1000.00	4.40	0.30	0.00	0.00	0.00
52019	0	0	0	0.12000E-01	-28943.0	12317.0	0.0	6.71	1000.00	2.92	0.30	0.00	0.00	0.00
66368	0	0	0	0.57100E+01	-51715.0	-14810.0	0.0	12.19	1000.00	17.37	0.30	0.00	0.00	0.00
67673	0	0	0	0.43220E+01	-31276.0	-4678.0	0.0	9.14	1000.00	16.12	0.30	0.00	0.00	0.00
68083	0	0	0	0.20000E-02	-41638.0	-811.0	0.0	0.30	1000.00	0.73	0.30	0.00	0.00	0.00
68301	0	0	0	0.10000E-02	-42195.0	3179.0	0.0	0.30	1000.00	0.46	0.30	0.00	0.00	0.00
69875	0	0	0	0.88000E-01	-46780.0	29605.0	0.0	4.57	1000.00	0.82	0.30	0.00	0.00	0.00
70493	0	0	0	0.48570E+01	-56268.0	49687.0	0.0	6.10	1000.00	57.69	0.30	0.00	0.00	0.00
71017	0	0	0	0.19500E+00	-46471.0	26521.0	0.0	6.10	1000.00	6.80	0.30	0.00	0.00	0.00
71063	0	0	0	0.60000E-02	-46426.0	27492.0	0.0	6.10	1000.00	0.29	0.30	0.00	0.00	0.00
71103	0	0	0	0.45000E-01	-45752.0	27411.0	0.0	6.10	1000.00	1.83	0.30	0.00	0.00	0.00
71160	0	0	0	0.11800E+00	-47998.0	25106.0	0.0	3.05	1000.00	6.54	0.30	0.00	0.00	0.00
71194	0	0	0	0.80000E-02	-47240.0	27017.0	0.0	7.62	1000.00	0.37	0.30	0.00	0.00	0.00
71353	0	0	0	0.71000E-01	-47321.0	27589.0	0.0	6.10	1000.00	3.33	0.30	0.00	0.00	0.00

*** CHARLSON FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
71401	0	0	0	0.30000E-02	-50392.0	9692.0	0.0	3.05	1000.00	0.07	0.30	0.00	0.00	0.00
71647	0	0	0	0.60000E-02	-48104.0	26582.0	0.0	7.01	1000.00	0.43	0.30	0.00	0.00	0.00
71785	0	0	0	0.45500E+00	-48068.0	26073.0	0.0	7.62	1000.00	31.22	0.30	0.00	0.00	0.00
71853	0	0	0	0.16900E+00	-43466.0	26494.0	0.0	6.10	1000.00	1.74	0.30	0.00	0.00	0.00
71926	0	0	0	0.26000E-01	-76105.0	2382.0	0.0	6.10	1000.00	0.15	0.30	0.00	0.00	0.00
71980	0	0	0	0.10000E-01	-85079.0	7966.0	0.0	3.05	1000.00	0.51	0.30	0.00	0.00	0.00
72019	0	0	0	0.48000E-01	-28943.0	12317.0	0.0	0.30	1000.00	11.69	0.30	0.00	0.00	0.00
72022	0	0	0	0.17000E-01	-44023.0	27097.0	0.0	6.10	1000.00	0.76	0.30	0.00	0.00	0.00
72052	0	0	0	0.32000E-01	-41606.0	3307.0	0.0	7.62	1000.00	2.10	0.30	0.00	0.00	0.00
72082	0	0	0	0.71000E-01	-47971.0	24344.0	0.0	3.05	1000.00	2.46	0.30	0.00	0.00	0.00
72168	0	0	0	0.45900E+00	-47171.0	24496.0	0.0	6.71	1000.00	11.80	0.30	0.00	0.00	0.00
72192	0	0	0	0.59400E+00	-47908.0	23742.0	0.0	6.71	1000.00	35.25	0.30	0.00	0.00	0.00
72268	0	0	0	0.28500E+00	-47892.0	22677.0	0.0	6.71	1000.00	21.67	0.30	0.00	0.00	0.00
72289	0	0	0	0.31060E+01	-47142.0	22957.0	0.0	6.71	1000.00	103.49	0.30	0.00	0.00	0.00
85801	0	0	0	0.97000E-01	-44304.0	29263.0	0.0	3.05	1000.00	6.10	0.30	0.00	0.00	0.00
85802	0	0	0	0.88000E-01	-45870.0	28018.0	0.0	3.05	1000.00	0.82	0.30	0.00	0.00	0.00
85901	0	0	0	0.36000E-01	-45776.0	24805.0	0.0	0.30	1000.00	26.72	0.30	0.00	0.00	0.00
85902	0	0	0	0.88000E-01	-46533.0	23173.0	0.0	3.05	1000.00	0.82	0.30	0.00	0.00	0.00
88001	2	0	0	0.17100E-06	-5000.0	46000.0	0.0	9.80	0.00	3000.00	0.00	0.00	0.00	0.00
88002	2	0	0	0.29800E-06	0.0	44000.0	0.0	9.66	0.00	3000.00	0.00	0.00	0.00	0.00
88003	2	0	0	0.17300E-05	-44000.0	-17000.0	0.0	16.77	0.00	2000.00	0.00	0.00	0.00	0.00
88004	2	0	0	0.14000E-05	-44000.0	-22000.0	0.0	20.14	0.00	3000.00	0.00	0.00	0.00	0.00
90008	2	0	0	0.19200E-06	-44000.0	65000.0	0.0	9.98	0.00	2000.00	0.00	0.00	0.00	0.00
90013	2	0	0	0.87800E-08	-47000.0	1000.0	0.0	17.92	0.00	3000.00	0.00	0.00	0.00	0.00
95001	2	0	0	0.25100E-06	-88000.0	49000.0	0.0	11.03	0.00	3000.00	0.00	0.00	0.00	0.00
95002	2	0	0	0.53700E-06	-84000.0	48000.0	0.0	16.43	0.00	3000.00	0.00	0.00	0.00	0.00
95003	2	0	0	0.58300E-07	-94000.0	29000.0	0.0	10.29	0.00	4000.00	0.00	0.00	0.00	0.00
95004	2	0	0	0.20900E-07	-90000.0	32000.0	0.0	9.77	0.00	3000.00	0.00	0.00	0.00	0.00
95005	2	0	0	0.40800E-07	-90000.0	28000.0	0.0	9.49	0.00	3000.00	0.00	0.00	0.00	0.00
95006	2	0	0	0.79200E-07	-89000.0	25000.0	0.0	8.45	0.00	2000.00	0.00	0.00	0.00	0.00
95007	2	0	0	0.63800E-07	-91000.0	5000.0	0.0	14.86	0.00	4000.00	0.00	0.00	0.00	0.00
95009	2	0	0	0.74200E-07	-41000.0	62000.0	0.0	7.98	0.00	3000.00	0.00	0.00	0.00	0.00
95010	2	0	0	0.92600E-06	-5000.0	49000.0	0.0	14.11	0.00	2000.00	0.00	0.00	0.00	0.00
95011	2	0	0	0.20400E-06	-3000.0	45000.0	0.0	10.03	0.00	4000.00	0.00	0.00	0.00	0.00
95012	2	0	0	0.27800E-06	-48000.0	8000.0	0.0	9.25	0.00	2000.00	0.00	0.00	0.00	0.00
95013	2	0	0	0.18600E-07	-47000.0	1000.0	0.0	7.78	0.00	3000.00	0.00	0.00	0.00	0.00
99001	0	0	0	0.13530E+03	-45900.0	62600.0	0.0	30.50	782.00	7.70	1.70	0.00	0.00	0.00
99501	0	0	0	0.19000E+01	-71100.0	-4600.0	0.0	13.90	440.00	19.50	0.40	0.00	0.00	0.00

Elkhorn Ranch Field

Figure B-13
Elkhorn Ranch Field
Locations of Existing SO_2 Point and Area Sources

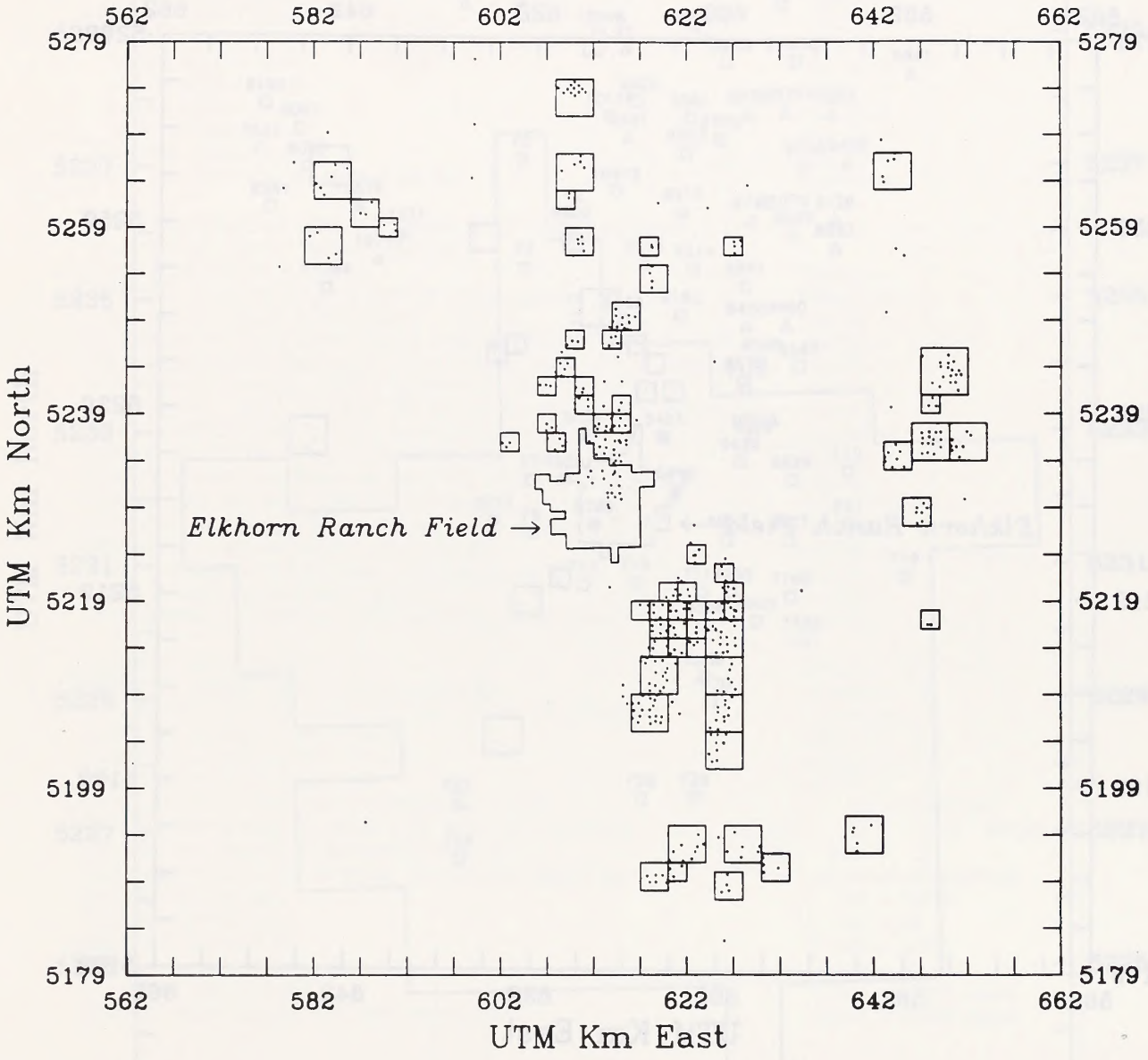


Figure B-14
Elkhorn Ranch Field
Locations of Future SO_2 Point and Area Sources

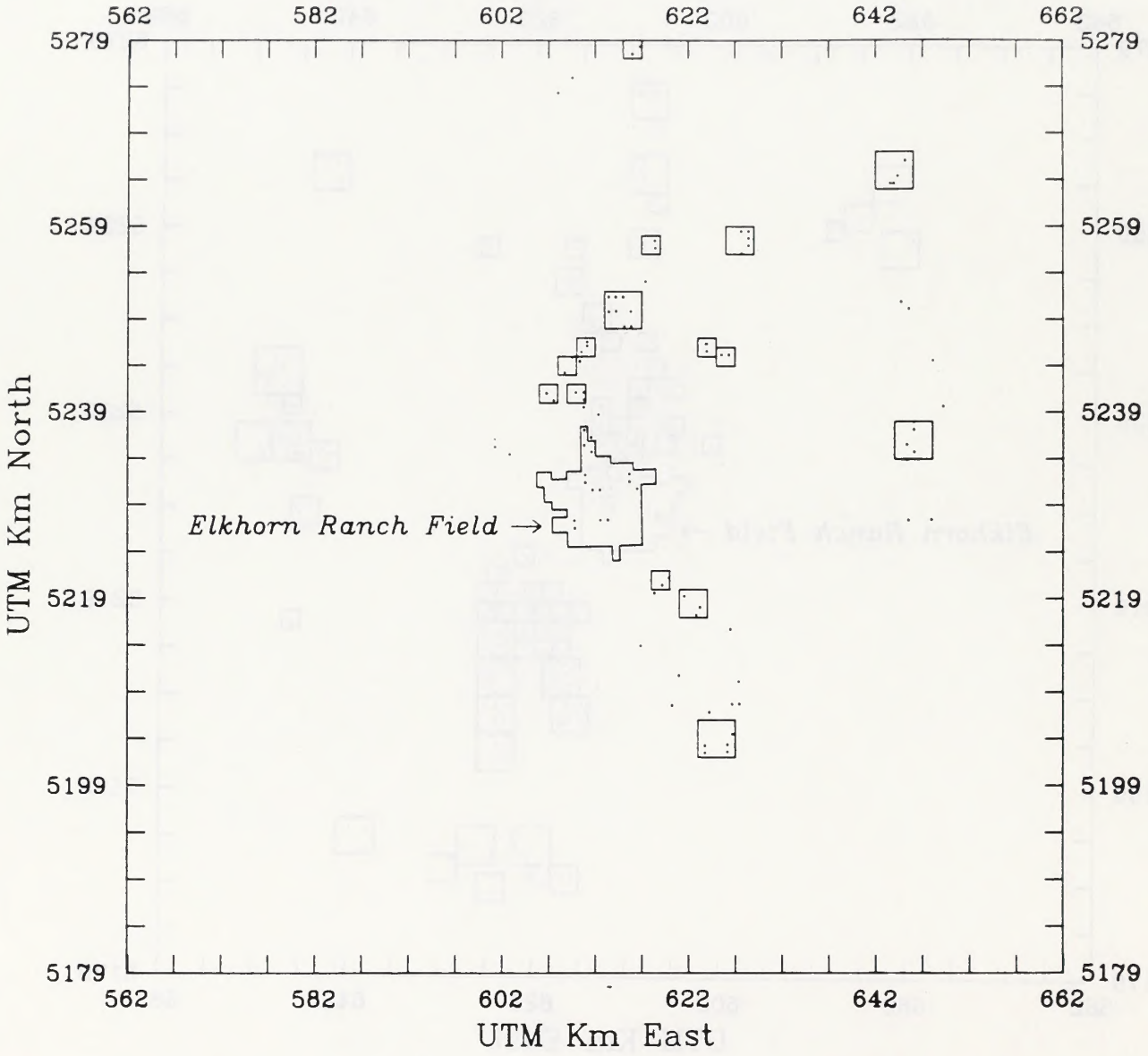


Figure B-15
Elkhorn Ranch Field
Locations of Study-Field SO_2 Sources

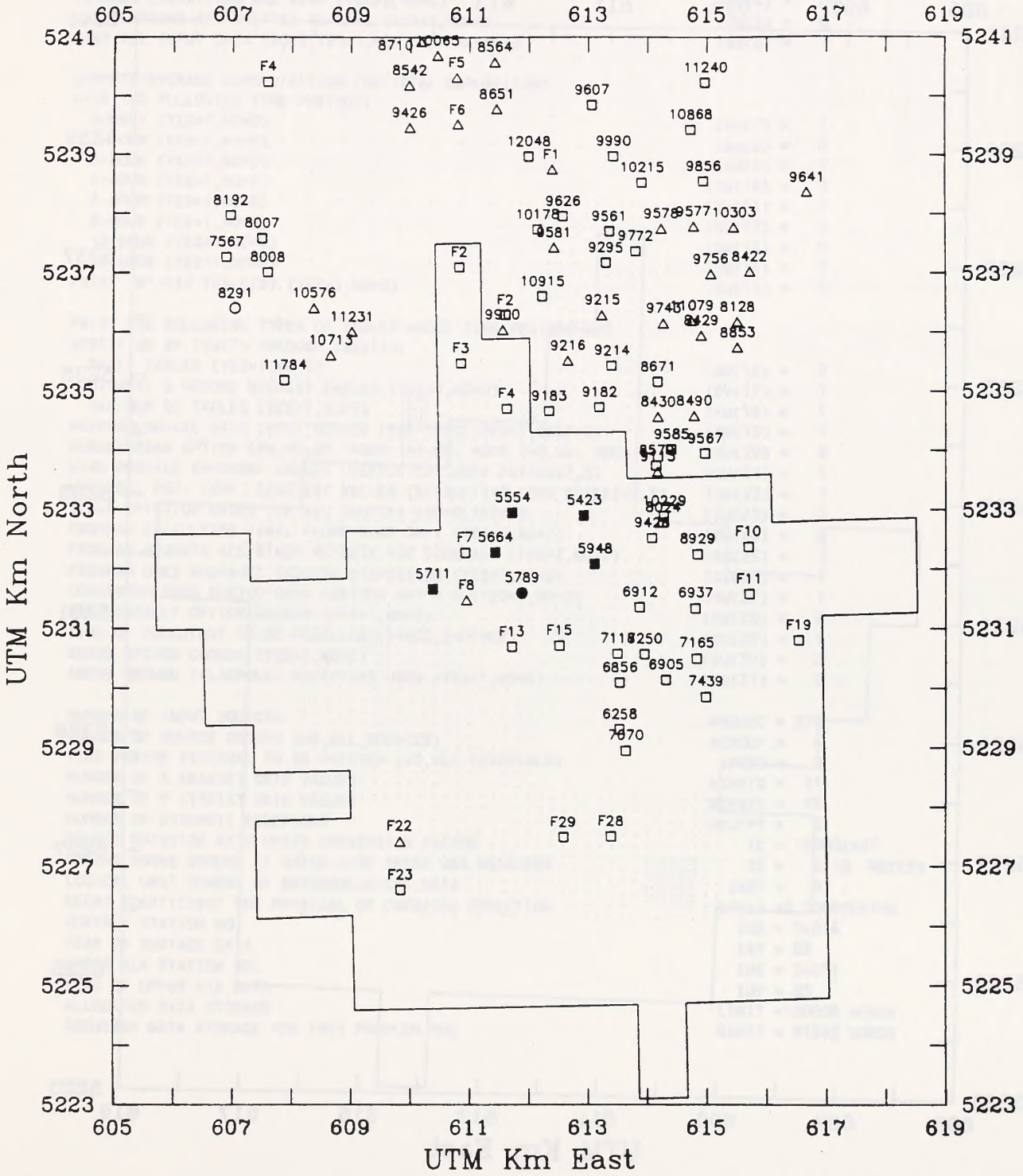
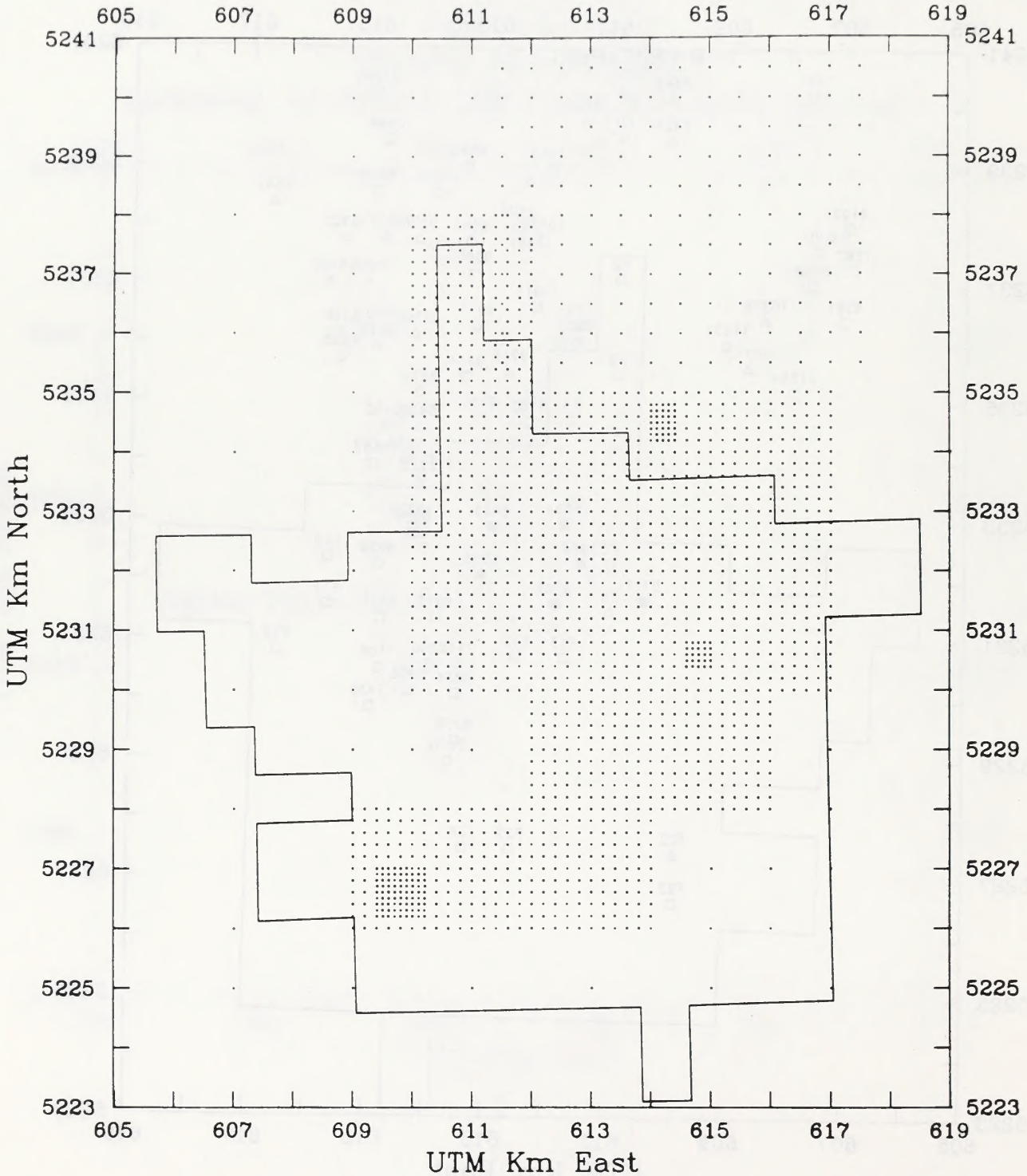


Figure B-16
Elkhorn Ranch Field
ISCST Receptor Locations



*** ELKHORN RANCH FIELD SO2 - RECEPTOR GROUP 1 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 272
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 4
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 11
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 15
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 91392 WORDS

*** ELKHORN RANCH FIELD SO2 - RECEPTOR GROUP 1 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 0
```

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

4, 6, 2, 6,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

1,-79999, 90001,-99999, 40001,-79999, 95001,-98999, 99501,-99999, 1,-99999, 40001,-89999,
95001,-98999, 99501,-99999,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** ELKHORN RANCH FIELD SO2 - RECEPTOR GROUP 1 ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

10000.0, 10200.0, 10400.0, 10600.0, 10800.0, 11000.0, 11200.0, 11400.0, 11600.0, 11800.0,
12000.0,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

35200.0, 35400.0, 35600.0, 35800.0, 36000.0, 36200.0, 36400.0, 36600.0, 36800.0, 37000.0,
37200.0, 37400.0, 37600.0, 37800.0, 38000.0,

*** ELKHORN RANCH FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
4008	0	0	0	0.30000E-02	25379.0	-6280.0	0.0	6.71	1000.00	1.11	0.30	0.00	0.00	0.00
5258	0	0	0	0.26800E+00	7879.0	43473.0	0.0	6.71	1000.00	4.40	0.30	0.00	0.00	0.00
5423	0	0	0	0.20200E+00	12884.0	32918.0	0.0	8.23	1000.00	3.74	0.30	0.00	0.00	0.00
5554	0	0	0	0.18100E+00	11687.0	32972.0	0.0	9.75	1000.00	3.74	0.30	0.00	0.00	0.00
5664	0	0	0	0.20200E+00	11456.0	32269.0	0.0	3.66	1000.00	3.74	0.30	0.00	0.00	0.00
5711	0	0	0	0.53500E+00	10456.0	31668.0	0.0	3.96	1000.00	9.58	0.30	0.00	0.00	0.00
5948	0	0	0	0.19000E+00	13118.0	42291.0	0.0	9.14	1000.00	3.74	0.30	0.00	0.00	0.00
6205	0	0	0	0.31200E+00	45213.0	55939.0	0.0	6.71	1000.00	2.42	0.30	0.00	0.00	0.00
25423	0	0	0	0.18000E-01	12907.0	32895.0	0.0	0.30	1000.00	0.33	0.30	0.00	0.00	0.00
25554	0	0	0	0.11000E-01	11693.0	32927.0	0.0	0.30	1000.00	0.24	0.30	0.00	0.00	0.00
25664	0	0	0	0.41000E-01	11439.0	32230.0	0.0	0.30	1000.00	1.09	0.30	0.00	0.00	0.00
25711	0	0	0	0.27000E-01	10432.0	31637.0	0.0	0.30	1000.00	0.48	0.30	0.00	0.00	0.00
25789	0	0	0	0.19000E-01	11439.0	32230.0	0.0	0.30	1000.00	1.09	0.30	0.00	0.00	0.00
25948	0	0	0	0.51000E-01	13137.0	42275.0	0.0	0.30	1000.00	1.01	0.30	0.00	0.00	0.00
26205	0	0	0	0.21580E+01	45213.0	55939.0	0.0	6.10	1000.00	16.76	0.30	0.00	0.00	0.00
45168	0	0	0	0.19500E+00	13032.0	42300.0	0.0	9.14	1000.00	3.74	0.30	0.00	0.00	0.00
45168	0	0	0	0.19500E+00	13191.0	42464.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
46258	0	0	0	0.34700E+00	13548.0	29286.0	0.0	8.84	1000.00	6.20	0.30	0.00	0.00	0.00
46602	0	0	0	0.96000E-01	20388.0	8153.0	0.0	6.71	1000.00	2.96	0.30	0.00	0.00	0.00
46619	0	0	0	0.10000E-02	15543.0	7989.0	0.0	6.71	1000.00	0.27	0.30	0.00	0.00	0.00
46626	0	0	0	0.45300E+00	-16556.0	69195.0	0.0	6.71	1000.00	11.41	0.30	0.00	0.00	0.00
46856	0	0	0	0.34700E+00	13562.0	30079.0	0.0	4.27	1000.00	6.20	0.30	0.00	0.00	0.00
46884	0	0	0	0.21800E+00	22359.0	25253.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
46905	0	0	0	0.34700E+00	14322.0	30104.0	0.0	4.27	1000.00	6.20	0.30	0.00	0.00	0.00
46912	0	0	0	0.34700E+00	13824.0	31369.0	0.0	5.79	1000.00	6.20	0.30	0.00	0.00	0.00
46937	0	0	0	0.34700E+00	14762.0	31338.0	0.0	4.27	1000.00	6.20	0.30	0.00	0.00	0.00
46959	0	0	0	0.34700E+00	24971.0	44649.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
47012	0	0	0	0.57000E-01	21191.0	6938.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47070	0	0	0	0.34700E+00	13648.0	28930.0	0.0	9.14	1000.00	6.20	0.30	0.00	0.00	0.00
47096	0	0	0	0.31900E+00	21064.0	21480.0	0.0	6.71	1000.00	7.73	0.30	0.00	0.00	0.00
47118	0	0	0	0.20900E+00	13489.0	30552.0	0.0	8.53	1000.00	3.74	0.30	0.00	0.00	0.00
47148	0	0	0	0.43500E+00	21406.0	21162.0	0.0	6.71	1000.00	10.53	0.30	0.00	0.00	0.00
47165	0	0	0	0.34700E+00	14861.0	30496.0	0.0	4.88	1000.00	6.20	0.30	0.00	0.00	0.00
47206	0	0	0	0.14300E+00	-21693.0	54744.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47250	0	0	0	0.22400E+00	13947.0	30542.0	0.0	9.45	1000.00	3.74	0.30	0.00	0.00	0.00
47284	0	0	0	0.14100E+00	25783.0	20458.0	0.0	6.71	1000.00	5.86	0.30	0.00	0.00	0.00
47314	0	0	0	0.45700E+00	14640.0	45103.0	0.0	4.57	1000.00	14.72	0.30	0.00	0.00	0.00
47337	0	0	0	0.10170E+01	28527.0	63540.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
47439	0	0	0	0.20900E+00	14937.0	29871.0	0.0	9.45	1000.00	3.74	0.30	0.00	0.00	0.00

*** ELKHORN RANCH FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
47511	0	0	0	0.14000E-01	-749.0	77173.0	0.0	6.71	1000.00	6.09	0.30	0.00	0.00	0.00
47675	0	0	0	0.86000E-01	26078.0	23573.0	0.0	6.71	1000.00	0.95	0.30	0.00	0.00	0.00
47823	0	0	0	0.16400E+00	18934.0	61668.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48024	0	0	0	0.66600E+00	14268.0	32819.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
48128	0	0	0	0.85000E+00	15499.0	36173.0	0.0	6.71	1000.00	15.95	0.30	0.00	0.00	0.00
48190	0	0	0	0.29100E+00	17847.0	13982.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48202	0	0	0	0.45700E+00	51591.0	29807.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
48404	0	0	0	0.13550E+01	-21294.0	63169.0	0.0	6.71	1000.00	49.61	0.30	0.00	0.00	0.00
48429	0	0	0	0.46300E+00	14896.0	35950.0	0.0	6.71	1000.00	7.65	0.30	0.00	0.00	0.00
48430	0	0	0	0.48400E+00	14227.0	34551.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
48490	0	0	0	0.51200E+00	14778.0	34592.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48542	0	0	0	0.10000E-02	9970.0	40183.0	0.0	6.71	1000.00	0.07	0.30	0.00	0.00	0.00
48579	0	0	0	0.20900E+00	14143.0	33754.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
48579	0	0	0	0.20900E+00	14176.0	33757.0	0.0	7.92	1000.00	3.74	0.30	0.00	0.00	0.00
48580	0	0	0	0.20300E+00	-20172.0	65962.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
48671	0	0	0	0.53500E+00	14172.0	34577.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
48726	0	0	0	0.10510E+01	43298.0	49845.0	0.0	7.62	1000.00	9.30	0.30	0.00	0.00	0.00
48737	0	0	0	0.11100E+00	-805.0	70151.0	0.0	8.53	1000.00	3.54	0.30	0.00	0.00	0.00
48853	0	0	0	0.66100E+00	15502.0	35741.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
48929	0	0	0	0.17500E+00	14829.0	32301.0	0.0	10.06	1000.00	3.74	0.30	0.00	0.00	0.00
49113	0	0	0	0.20800E+00	13768.0	33609.0	0.0	4.27	1000.00	3.72	0.30	0.00	0.00	0.00
49113	0	0	0	0.20800E+00	14162.0	33650.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
49159	0	0	0	0.28320E+01	42740.0	68409.0	0.0	6.71	1000.00	9.15	0.30	0.00	0.00	0.00
49182	0	0	0	0.19900E+00	13181.0	34741.0	0.0	6.71	1000.00	3.73	0.30	0.00	0.00	0.00
49183	0	0	0	0.32700E+00	12331.0	34673.0	0.0	6.71	1000.00	6.13	0.30	0.00	0.00	0.00
49214	0	0	0	0.40800E+00	13393.0	35442.0	0.0	6.71	1000.00	10.46	0.30	0.00	0.00	0.00
49215	0	0	0	0.37500E+00	13407.0	36140.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
49216	0	0	0	0.60400E+00	12647.0	35525.0	0.0	6.71	1000.00	9.73	0.30	0.00	0.00	0.00
49426	0	0	0	0.84000E-01	9964.0	39461.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49428	0	0	0	0.25000E+00	13858.0	32097.0	0.0	9.45	1000.00	3.74	0.30	0.00	0.00	0.00
49514	0	0	0	0.11200E+00	15136.0	8794.0	0.0	6.71	1000.00	10.85	0.30	0.00	0.00	0.00
49567	0	0	0	0.41200E+00	14172.0	34577.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
49585	0	0	0	0.41200E+00	14172.0	34577.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
49594	0	0	0	0.69000E-01	14954.0	32248.0	0.0	10.36	1000.00	1.24	0.30	0.00	0.00	0.00
49594	0	0	0	0.69000E-01	15056.0	42501.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
49641	0	0	0	0.66100E+00	16660.0	38360.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49643	0	0	0	0.52000E-01	14066.0	48927.0	0.0	4.57	1000.00	0.62	0.30	0.00	0.00	0.00
49743	0	0	0	0.56500E+00	14259.0	36157.0	0.0	6.71	1000.00	10.59	0.30	0.00	0.00	0.00
49756	0	0	0	0.66100E+00	15054.0	36989.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00

*** ELKHORN RANCH FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
49799	0	0	0	0.10500E+00	44293.0	56681.0	0.0	6.71	1000.00	0.81	0.30	0.00	0.00	0.00
49862	0	0	0	0.35600E+00	22762.0	27079.0	0.0	6.71	1000.00	8.10	0.30	0.00	0.00	0.00
49900	0	0	0	0.66100E+00	11543.0	36041.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
50120	0	0	0	0.41000E-01	15099.0	10006.0	0.0	6.71	1000.00	2.34	0.30	0.00	0.00	0.00
50229	0	0	0	0.52000E+00	14268.0	32819.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
50375	0	0	0	0.76000E-01	17139.0	13052.0	0.0	6.71	1000.00	2.42	0.30	0.00	0.00	0.00
50915	0	0	0	0.25000E+00	13225.0	36298.0	0.0	9.75	1000.00	6.20	0.30	0.00	0.00	0.00
50951	0	0	0	0.20000E-02	-1114.0	64348.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
51079	0	0	0	0.73300E+00	14735.0	36199.0	0.0	6.71	1000.00	13.74	0.30	0.00	0.00	0.00
51178	0	0	0	0.52000E+00	8565.0	45607.0	0.0	4.57	1000.00	9.52	0.30	0.00	0.00	0.00
51231	0	0	0	0.31900E+00	9007.0	35998.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
51313	0	0	0	0.14100E+00	24187.0	61137.0	0.0	6.71	1000.00	5.49	0.30	0.00	0.00	0.00
51417	0	0	0	0.50000E-02	-12449.0	-4676.0	0.0	6.71	1000.00	1.90	0.30	0.00	0.00	0.00
52134	0	0	0	0.30000E-02	25964.0	-17366.0	0.0	9.14	1000.00	1.46	0.30	0.00	0.00	0.00
65168	0	0	0	0.89000E-01	13005.0	42314.0	0.0	0.30	1000.00	1.72	0.30	0.00	0.00	0.00
65168	0	0	0	0.89000E-01	13191.0	42464.0	0.0	3.05	1000.00	1.72	0.30	0.00	0.00	0.00
66258	0	0	0	0.84000E-01	13577.0	29310.0	0.0	0.30	1000.00	1.51	0.30	0.00	0.00	0.00
66602	0	0	0	0.72500E+00	20388.0	8153.0	0.0	0.30	1000.00	22.33	0.30	0.00	0.00	0.00
66856	0	0	0	0.47000E-01	13511.0	30129.0	0.0	1.22	1000.00	0.83	0.30	0.00	0.00	0.00
66905	0	0	0	0.15600E+00	14327.0	30152.0	0.0	0.91	1000.00	2.80	0.30	0.00	0.00	0.00
66912	0	0	0	0.19000E-01	13820.0	31338.0	0.0	0.30	1000.00	0.33	0.30	0.00	0.00	0.00
66937	0	0	0	0.71000E-01	14759.0	31371.0	0.0	0.30	1000.00	1.27	0.30	0.00	0.00	0.00
66959	0	0	0	0.83650E+01	24971.0	44649.0	0.0	6.10	1000.00	55.41	0.30	0.00	0.00	0.00
67012	0	0	0	0.26000E+00	21191.0	6938.0	0.0	3.05	1000.00	16.98	0.30	0.00	0.00	0.00
67070	0	0	0	0.42000E-01	13659.0	28966.0	0.0	0.30	1000.00	0.75	0.30	0.00	0.00	0.00
67118	0	0	0	0.60000E-02	13453.0	30568.0	0.0	0.30	1000.00	0.10	0.30	0.00	0.00	0.00
67165	0	0	0	0.74000E-01	14811.0	30536.0	0.0	0.30	1000.00	1.33	0.30	0.00	0.00	0.00
67250	0	0	0	0.34000E-01	13976.0	30566.0	0.0	0.30	1000.00	0.56	0.30	0.00	0.00	0.00
67314	0	0	0	0.48000E-01	14640.0	45103.0	0.0	0.30	1000.00	1.52	0.30	0.00	0.00	0.00
67337	0	0	0	0.13920E+01	28527.0	63540.0	0.0	6.10	1000.00	14.42	0.30	0.00	0.00	0.00
67439	0	0	0	0.24000E-01	14993.0	29895.0	0.0	0.30	1000.00	0.43	0.30	0.00	0.00	0.00
67823	0	0	0	0.15370E+01	18934.0	61668.0	0.0	3.05	1000.00	58.12	0.30	0.00	0.00	0.00
68024	0	0	0	0.72000E-01	14293.0	32789.0	0.0	0.30	1000.00	1.66	0.30	0.00	0.00	0.00
68075	0	0	0	0.17000E-01	13697.0	20486.0	0.0	3.05	1000.00	1.43	0.30	0.00	0.00	0.00
68202	0	0	0	0.17020E+01	51591.0	29807.0	0.0	0.30	1000.00	13.84	0.30	0.00	0.00	0.00
68579	0	0	0	0.53000E-01	14143.0	33754.0	0.0	3.05	1000.00	0.95	0.30	0.00	0.00	0.00
68579	0	0	0	0.53000E-01	14169.0	33785.0	0.0	0.30	1000.00	0.95	0.30	0.00	0.00	0.00
68671	0	0	0	0.14010E+01	14172.0	34577.0	0.0	2.44	1000.00	24.39	0.30	0.00	0.00	0.00
68726	0	0	0	0.97100E+00	43298.0	49845.0	0.0	3.05	1000.00	8.60	0.30	0.00	0.00	0.00

*** ELKHORN RANCH FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
68929	0	0	0	0.52000E-01	14865.0	32299.0	0.0	0.30	1000.00	1.12	0.30	0.00	0.00	0.00
69182	0	0	0	0.10000E-02	13181.0	34741.0	0.0	3.05	1000.00	0.01	0.30	0.00	0.00	0.00
69183	0	0	0	0.10000E-02	12331.0	34673.0	0.0	3.05	1000.00	0.02	0.30	0.00	0.00	0.00
69214	0	0	0	0.10000E-02	13393.0	35442.0	0.0	3.05	1000.00	0.02	0.30	0.00	0.00	0.00
69428	0	0	0	0.10000E+00	13834.0	32067.0	0.0	0.30	1000.00	1.50	0.30	0.00	0.00	0.00
69567	0	0	0	0.57200E+00	14172.0	34577.0	0.0	0.30	1000.00	12.92	0.30	0.00	0.00	0.00
69585	0	0	0	0.10000E-02	14172.0	34577.0	0.0	0.30	1000.00	0.02	0.30	0.00	0.00	0.00
69643	0	0	0	0.11000E-01	14066.0	48927.0	0.0	0.30	1000.00	0.13	0.30	0.00	0.00	0.00
70229	0	0	0	0.37000E-01	14293.0	32789.0	0.0	0.30	1000.00	1.66	0.30	0.00	0.00	0.00
70915	0	0	0	0.24800E+00	13225.0	36298.0	0.0	2.44	1000.00	6.15	0.30	0.00	0.00	0.00
71178	0	0	0	0.12800E+00	8565.0	45607.0	0.0	0.30	1000.00	2.34	0.30	0.00	0.00	0.00
71313	0	0	0	0.13200E+00	24187.0	61137.0	0.0	3.05	1000.00	5.14	0.30	0.00	0.00	0.00
72134	0	0	0	0.60000E-02	25964.0	-17366.0	0.0	1.83	1000.00	3.30	0.30	0.00	0.00	0.00
80101	0	0	0	0.10000E-02	27406.0	10124.0	0.0	6.71	1000.00	3.13	0.30	0.00	0.00	0.00
80102	0	0	0	0.49000E-01	27465.0	7714.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80103	0	0	0	0.10000E-02	26661.0	7697.0	0.0	6.71	1000.00	3.13	0.30	0.00	0.00	0.00
80104	0	0	0	0.49000E-01	24246.0	6832.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80205	0	0	0	0.24100E+00	18352.0	19574.0	0.0	6.71	1000.00	7.76	0.30	0.00	0.00	0.00
80216	0	0	0	0.24100E+00	16868.0	13908.0	0.0	6.71	1000.00	7.76	0.30	0.00	0.00	0.00
80301	0	0	0	0.64500E+00	44699.0	50880.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80302	0	0	0	0.64500E+00	45514.0	50111.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80306	0	0	0	0.64500E+00	49202.0	39630.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80310	0	0	0	0.64500E+00	45298.0	33928.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80312	0	0	0	0.64500E+00	45481.0	27483.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80314	0	0	0	0.64500E+00	47879.0	27547.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80402	0	0	0	0.29000E+00	10803.0	37115.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
80403	0	0	0	0.29000E+00	10826.0	35476.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
80404	0	0	0	0.29000E+00	11629.0	34697.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
80407	0	0	0	0.29000E+00	10931.0	32284.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
80408	0	0	0	0.29000E+00	10942.0	31479.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
80410	0	0	0	0.29000E+00	15676.0	32367.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
80411	0	0	0	0.29000E+00	15719.0	31576.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
80413	0	0	0	0.29000E+00	11722.0	30690.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
80415	0	0	0	0.29000E+00	12521.0	30726.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
80419	0	0	0	0.29000E+00	16534.0	30821.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
80422	0	0	0	0.40700E+00	9812.0	27423.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
80423	0	0	0	0.40700E+00	9825.0	26583.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
80428	0	0	0	0.29000E+00	13356.0	27512.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
80429	0	0	0	0.29000E+00	12570.0	27507.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00

*** ELKHORN RANCH FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
80503	0	0	0	0.31100E+00	17349.0	53031.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80525	0	0	0	0.31100E+00	10349.0	44495.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
81401	0	0	0	0.23100E+00	26476.0	15738.0	0.0	6.71	1000.00	6.70	0.30	0.00	0.00	0.00
81501	0	0	0	0.52000E-01	20960.0	10779.0	0.0	6.71	1000.00	2.78	0.30	0.00	0.00	0.00
81502	0	0	0	0.52000E-01	20197.0	7545.0	0.0	6.71	1000.00	2.78	0.30	0.00	0.00	0.00
81606	0	0	0	0.71600E+00	10777.0	39516.0	0.0	6.71	1000.00	11.13	0.30	0.00	0.00	0.00
81801	0	0	0	0.47800E+00	12372.0	38751.0	0.0	6.71	1000.00	8.97	0.30	0.00	0.00	0.00
81802	0	0	0	0.47800E+00	11608.0	36299.0	0.0	6.71	1000.00	8.97	0.30	0.00	0.00	0.00
82001	0	0	0	0.12600E+00	9559.0	74963.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
82002	0	0	0	0.12600E+00	7990.0	73328.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
82201	0	0	0	0.14270E+01	1230.0	36094.0	0.0	6.71	1000.00	13.36	0.30	0.00	0.00	0.00
82202	0	0	0	0.14270E+01	1253.0	35290.0	0.0	6.71	1000.00	13.36	0.30	0.00	0.00	0.00
82203	0	0	0	0.14270E+01	2852.0	34516.0	0.0	6.71	1000.00	13.36	0.30	0.00	0.00	0.00
85304	0	0	0	0.34300E+00	48064.0	44550.0	0.0	3.05	1000.00	2.71	0.30	0.00	0.00	0.00
85402	0	0	0	0.51000E-01	10823.0	37085.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
85403	0	0	0	0.51000E-01	10860.0	35478.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
85404	0	0	0	0.51000E-01	11601.0	34719.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
85407	0	0	0	0.51000E-01	10901.0	32262.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
85410	0	0	0	0.51000E-01	15696.0	32393.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
85411	0	0	0	0.51000E-01	15685.0	31588.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
85413	0	0	0	0.51000E-01	11686.0	30698.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
85415	0	0	0	0.51000E-01	12493.0	30702.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
85419	0	0	0	0.51000E-01	16522.0	30787.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
85423	0	0	0	0.17400E+01	9829.0	26617.0	0.0	9.14	1000.00	3.10	0.30	0.00	0.00	0.00
85428	0	0	0	0.51000E-01	13390.0	27504.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
85429	0	0	0	0.51000E-01	12570.0	27471.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
85503	0	0	0	0.33700E+00	17373.0	53055.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85525	0	0	0	0.33700E+00	10315.0	44503.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
86802	0	0	0	0.21700E+00	11576.0	36283.0	0.0	3.05	1000.00	4.06	0.30	0.00	0.00	0.00
88001	2	0	0	0.76700E-07	15000.0	77000.0	0.0	8.87	0.00	2000.00	0.00	0.00	0.00	0.00
88002	2	0	0	0.24000E-06	17000.0	56000.0	0.0	9.34	0.00	2000.00	0.00	0.00	0.00	0.00
88003	2	0	0	0.40900E-06	26000.0	56000.0	0.0	11.75	0.00	3000.00	0.00	0.00	0.00	0.00
88004	2	0	0	0.71100E-06	13000.0	48000.0	0.0	11.06	0.00	4000.00	0.00	0.00	0.00	0.00
88005	2	0	0	0.48600E-06	10000.0	45000.0	0.0	8.79	0.00	2000.00	0.00	0.00	0.00	0.00
88006	2	0	0	0.32400E-06	8000.0	43000.0	0.0	8.79	0.00	2000.00	0.00	0.00	0.00	0.00
88007	2	0	0	0.26800E-06	6000.0	40000.0	0.0	10.23	0.00	2000.00	0.00	0.00	0.00	0.00
88008	2	0	0	0.59100E-06	9000.0	40000.0	0.0	12.63	0.00	2000.00	0.00	0.00	0.00	0.00
88009	2	0	0	0.32400E-06	23000.0	45000.0	0.0	8.79	0.00	2000.00	0.00	0.00	0.00	0.00
88010	2	0	0	0.97400E-05	25000.0	44000.0	0.0	39.81	0.00	2000.00	0.00	0.00	0.00	0.00

*** ELKHORN RANCH FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
88011	2	0	0	0.60400E-06	42000.0	63000.0	0.0	15.95	0.00	4000.00	0.00	0.00	0.00	0.00
88012	2	0	0	0.16400E-06	44000.0	34000.0	0.0	9.04	0.00	4000.00	0.00	0.00	0.00	0.00
88013	2	0	0	0.12200E-06	18000.0	20000.0	0.0	11.60	0.00	2000.00	0.00	0.00	0.00	0.00
88014	2	0	0	0.11700E-06	21000.0	17000.0	0.0	9.81	0.00	3000.00	0.00	0.00	0.00	0.00
88015	2	0	0	0.17500E-07	23000.0	2000.0	0.0	10.26	0.00	4000.00	0.00	0.00	0.00	0.00
90001	2	0	0	0.83800E-08	-18000.0	62000.0	0.0	10.26	0.00	4000.00	0.00	0.00	0.00	0.00
90003	2	0	0	0.13500E-07	-11000.0	58000.0	0.0	7.05	0.00	2000.00	0.00	0.00	0.00	0.00
90005	2	0	0	0.86700E-07	8000.0	71000.0	0.0	11.69	0.00	4000.00	0.00	0.00	0.00	0.00
90013	2	0	0	0.48800E-06	9000.0	46000.0	0.0	8.89	0.00	2000.00	0.00	0.00	0.00	0.00
90015	2	0	0	0.30900E-06	8000.0	43000.0	0.0	9.20	0.00	2000.00	0.00	0.00	0.00	0.00
90055	2	0	0	0.12500E-09	24000.0	1000.0	0.0	7.62	0.00	4000.00	0.00	0.00	0.00	0.00
90056	2	0	0	0.50600E-08	20000.0	-9000.0	0.0	13.27	0.00	4000.00	0.00	0.00	0.00	0.00
90057	2	0	0	0.68800E-09	26000.0	-9000.0	0.0	8.37	0.00	4000.00	0.00	0.00	0.00	0.00
90058	2	0	0	0.15600E-08	17000.0	-12000.0	0.0	8.99	0.00	3000.00	0.00	0.00	0.00	0.00
90059	2	0	0	0.50000E-08	20000.0	-11000.0	0.0	11.34	0.00	2000.00	0.00	0.00	0.00	0.00
90061	2	0	0	0.18900E-08	30000.0	-11000.0	0.0	9.70	0.00	3000.00	0.00	0.00	0.00	0.00
90062	2	0	0	0.13800E-08	39000.0	-8000.0	0.0	4.06	0.00	4000.00	0.00	0.00	0.00	0.00
95001	2	0	0	0.38900E-07	-18000.0	62000.0	0.0	8.32	0.00	4000.00	0.00	0.00	0.00	0.00
95002	2	0	0	0.10300E-06	-14000.0	59000.0	0.0	12.05	0.00	3000.00	0.00	0.00	0.00	0.00
95003	2	0	0	0.71500E-07	-11000.0	58000.0	0.0	9.16	0.00	2000.00	0.00	0.00	0.00	0.00
95004	2	0	0	0.26100E-07	-19000.0	55000.0	0.0	8.42	0.00	4000.00	0.00	0.00	0.00	0.00
95005	2	0	0	0.80600E-08	8000.0	71000.0	0.0	9.49	0.00	4000.00	0.00	0.00	0.00	0.00
95006	2	0	0	0.22600E-07	8000.0	63000.0	0.0	8.63	0.00	4000.00	0.00	0.00	0.00	0.00
95007	2	0	0	0.18800E-06	8000.0	61000.0	0.0	11.47	0.00	2000.00	0.00	0.00	0.00	0.00
95008	2	0	0	0.51400E-07	9000.0	56000.0	0.0	10.12	0.00	3000.00	0.00	0.00	0.00	0.00
95009	2	0	0	0.25500E-06	17000.0	56000.0	0.0	11.22	0.00	2000.00	0.00	0.00	0.00	0.00
95010	2	0	0	0.91900E-06	26000.0	56000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95011	2	0	0	0.15000E-06	17000.0	52000.0	0.0	8.23	0.00	3000.00	0.00	0.00	0.00	0.00
95012	2	0	0	0.55100E-06	14000.0	48000.0	0.0	9.56	0.00	3000.00	0.00	0.00	0.00	0.00
95014	2	0	0	0.11300E-05	13000.0	46000.0	0.0	16.69	0.00	2000.00	0.00	0.00	0.00	0.00
95015	2	0	0	0.14200E-05	8000.0	43000.0	0.0	36.80	0.00	2000.00	0.00	0.00	0.00	0.00
95016	2	0	0	0.40400E-06	6000.0	41000.0	0.0	10.74	0.00	2000.00	0.00	0.00	0.00	0.00
95017	2	0	0	0.29800E-06	10000.0	41000.0	0.0	14.81	0.00	2000.00	0.00	0.00	0.00	0.00
95018	2	0	0	0.42600E-06	10000.0	39000.0	0.0	15.41	0.00	2000.00	0.00	0.00	0.00	0.00
95019	2	0	0	0.72500E-07	14000.0	39000.0	0.0	7.45	0.00	2000.00	0.00	0.00	0.00	0.00
95020	2	0	0	0.52800E-06	6000.0	37000.0	0.0	10.87	0.00	2000.00	0.00	0.00	0.00	0.00
95021	2	0	0	0.11000E-05	12000.0	37000.0	0.0	12.47	0.00	2000.00	0.00	0.00	0.00	0.00
95022	2	0	0	0.64600E-06	14000.0	37000.0	0.0	13.04	0.00	2000.00	0.00	0.00	0.00	0.00
95023	2	0	0	0.10700E-05	2000.0	35000.0	0.0	14.44	0.00	2000.00	0.00	0.00	0.00	0.00

*** ELKHORN RANCH FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
95024	2	0	0	0.45200E-06	7000.0	35000.0	0.0	9.21	0.00	2000.00	0.00	0.00	0.00	0.00
95025	2	0	0	0.14000E-05	42000.0	63000.0	0.0	27.79	0.00	4000.00	0.00	0.00	0.00	0.00
95026	2	0	0	0.48700E-06	47000.0	41000.0	0.0	10.38	0.00	5000.00	0.00	0.00	0.00	0.00
95027	2	0	0	0.47900E-06	47000.0	39000.0	0.0	10.28	0.00	2000.00	0.00	0.00	0.00	0.00
95028	2	0	0	0.29700E-06	43000.0	33000.0	0.0	9.79	0.00	3000.00	0.00	0.00	0.00	0.00
95029	2	0	0	0.65000E-06	46000.0	34000.0	0.0	10.51	0.00	4000.00	0.00	0.00	0.00	0.00
95030	2	0	0	0.49200E-06	50000.0	34000.0	0.0	9.64	0.00	4000.00	0.00	0.00	0.00	0.00
95031	2	0	0	0.87800E-06	45000.0	27000.0	0.0	12.16	0.00	3000.00	0.00	0.00	0.00	0.00
95032	2	0	0	0.80600E-06	47000.0	16000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95033	2	0	0	0.26900E-06	22000.0	23000.0	0.0	11.20	0.00	2000.00	0.00	0.00	0.00	0.00
95034	2	0	0	0.29500E-06	25000.0	21000.0	0.0	13.03	0.00	2000.00	0.00	0.00	0.00	0.00
95035	2	0	0	0.16000E-06	19000.0	19000.0	0.0	11.92	0.00	2000.00	0.00	0.00	0.00	0.00
95036	2	0	0	0.25500E-06	21000.0	19000.0	0.0	12.68	0.00	2000.00	0.00	0.00	0.00	0.00
95037	2	0	0	0.20400E-06	26000.0	19000.0	0.0	10.78	0.00	2000.00	0.00	0.00	0.00	0.00
95038	2	0	0	0.88200E-07	16000.0	17000.0	0.0	10.38	0.00	2000.00	0.00	0.00	0.00	0.00
95039	2	0	0	0.16300E-06	18000.0	17000.0	0.0	13.15	0.00	2000.00	0.00	0.00	0.00	0.00
95040	2	0	0	0.41100E-06	20000.0	17000.0	0.0	12.25	0.00	2000.00	0.00	0.00	0.00	0.00
95041	2	0	0	0.27200E-06	22000.0	17000.0	0.0	12.39	0.00	2000.00	0.00	0.00	0.00	0.00
95042	2	0	0	0.29600E-06	24000.0	17000.0	0.0	10.87	0.00	2000.00	0.00	0.00	0.00	0.00
95043	2	0	0	0.36300E-06	26000.0	17000.0	0.0	11.40	0.00	2000.00	0.00	0.00	0.00	0.00
95044	2	0	0	0.19900E-06	18000.0	15000.0	0.0	12.29	0.00	2000.00	0.00	0.00	0.00	0.00
95045	2	0	0	0.36200E-06	20000.0	15000.0	0.0	14.41	0.00	2000.00	0.00	0.00	0.00	0.00
95046	2	0	0	0.14700E-06	22000.0	15000.0	0.0	11.51	0.00	2000.00	0.00	0.00	0.00	0.00
95047	2	0	0	0.34500E-06	18000.0	13000.0	0.0	13.19	0.00	2000.00	0.00	0.00	0.00	0.00
95048	2	0	0	0.10900E-06	20000.0	13000.0	0.0	11.02	0.00	2000.00	0.00	0.00	0.00	0.00
95049	2	0	0	0.15200E-06	22000.0	13000.0	0.0	11.34	0.00	2000.00	0.00	0.00	0.00	0.00
95050	2	0	0	0.24500E-06	24000.0	13000.0	0.0	12.28	0.00	4000.00	0.00	0.00	0.00	0.00
95051	2	0	0	0.16000E-06	17000.0	9000.0	0.0	12.14	0.00	4000.00	0.00	0.00	0.00	0.00
95052	2	0	0	0.38900E-07	24000.0	9000.0	0.0	9.51	0.00	4000.00	0.00	0.00	0.00	0.00
95053	2	0	0	0.40300E-07	16000.0	5000.0	0.0	11.11	0.00	4000.00	0.00	0.00	0.00	0.00
95054	2	0	0	0.34300E-07	24000.0	5000.0	0.0	10.87	0.00	4000.00	0.00	0.00	0.00	0.00
95055	2	0	0	0.14600E-07	24000.0	1000.0	0.0	8.15	0.00	4000.00	0.00	0.00	0.00	0.00
95057	2	0	0	0.25000E-09	26000.0	-9000.0	0.0	8.37	0.00	4000.00	0.00	0.00	0.00	0.00
95060	2	0	0	0.45600E-08	25000.0	-13000.0	0.0	5.56	0.00	3000.00	0.00	0.00	0.00	0.00
95061	2	0	0	0.66700E-09	30000.0	-11000.0	0.0	6.11	0.00	3000.00	0.00	0.00	0.00	0.00
95062	2	0	0	0.35000E-08	39000.0	-8000.0	0.0	8.67	0.00	4000.00	0.00	0.00	0.00	0.00
99501	0	0	0	0.28400E+02	34200.0	20100.0	0.0	30.50	866.00	15.00	1.10	0.00	0.00	0.00
99502	0	0	0	0.53800E+02	43800.0	39700.0	0.0	59.50	870.00	10.00	1.80	0.00	0.00	0.00

Little Knife Field

Figure B–17
Little Knife Field
Locations of Existing SO_2 Point and Area Sources

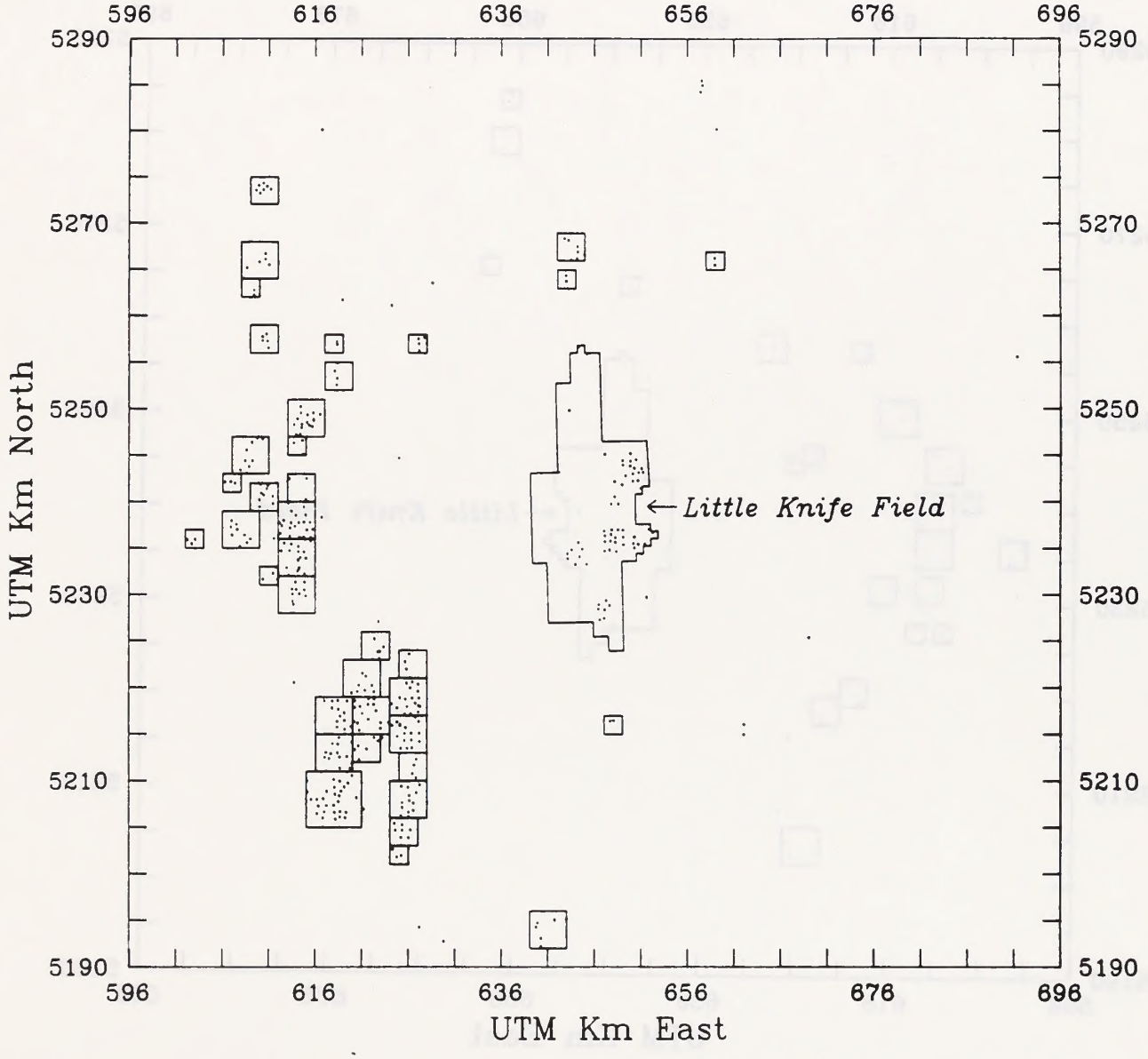
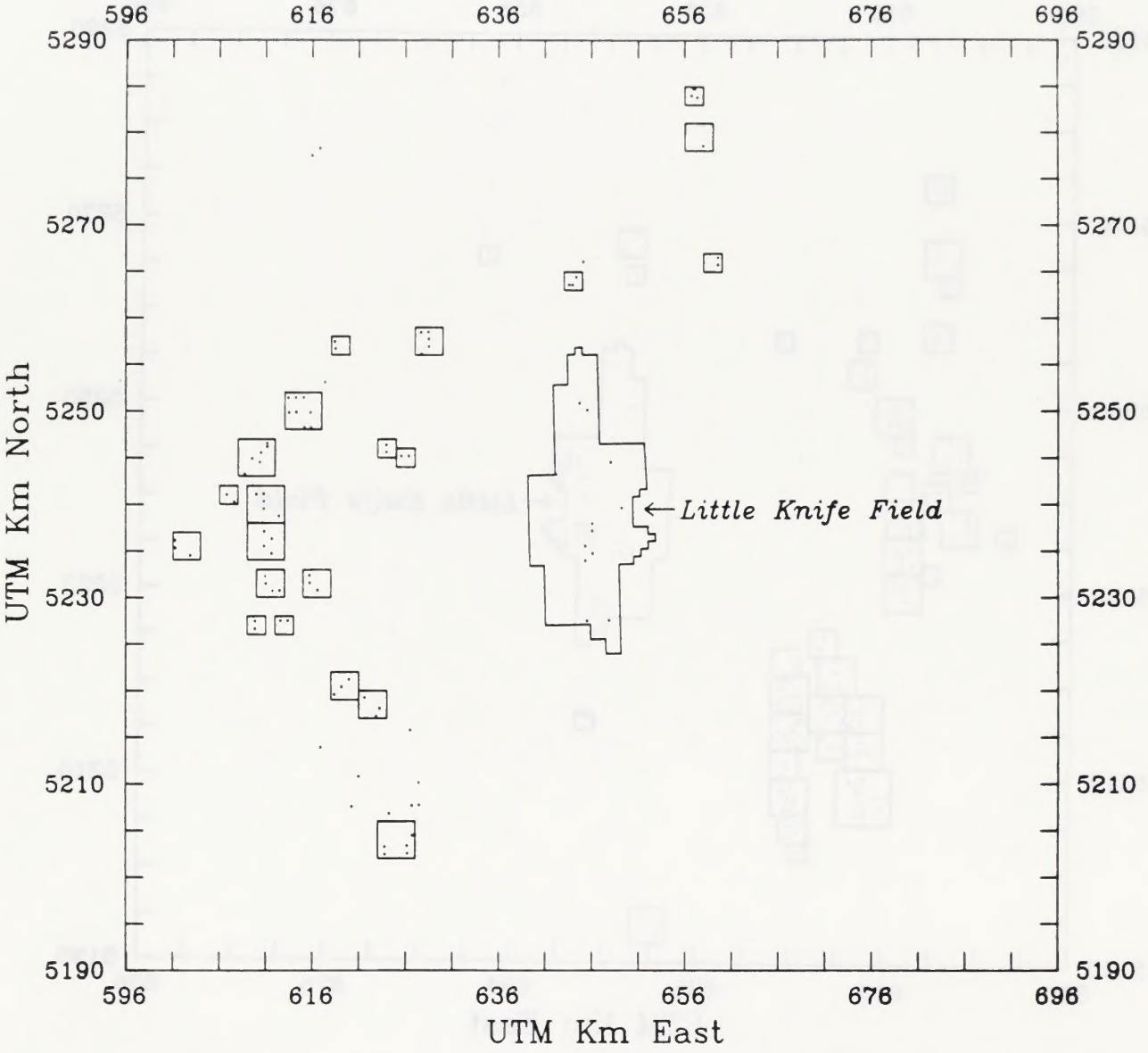


Figure B-18
Little Knife Field
Locations of Future SO_2 Point and Area Sources



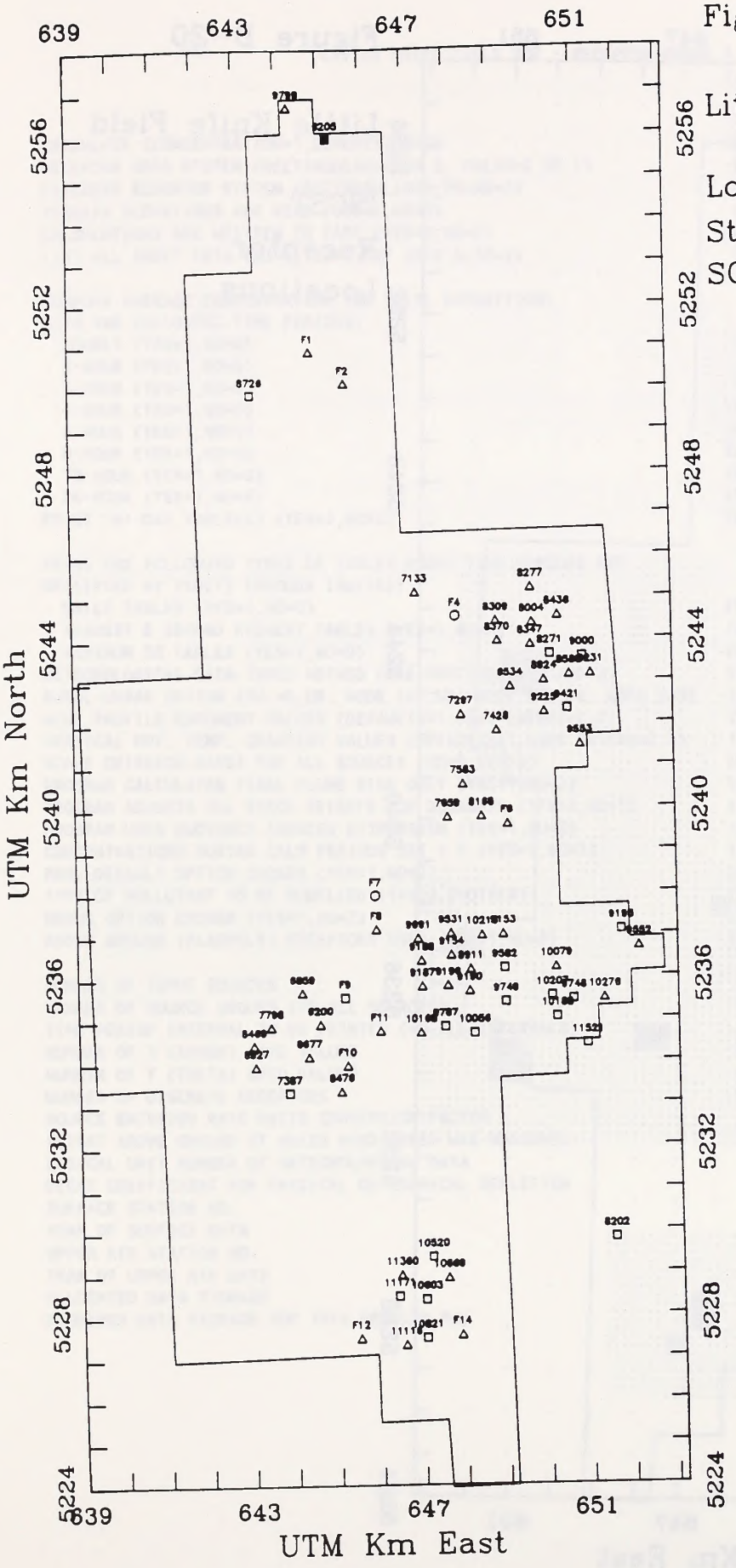


Figure B-19

Little Knife Field

Locations of Study-Field SO_2 Sources

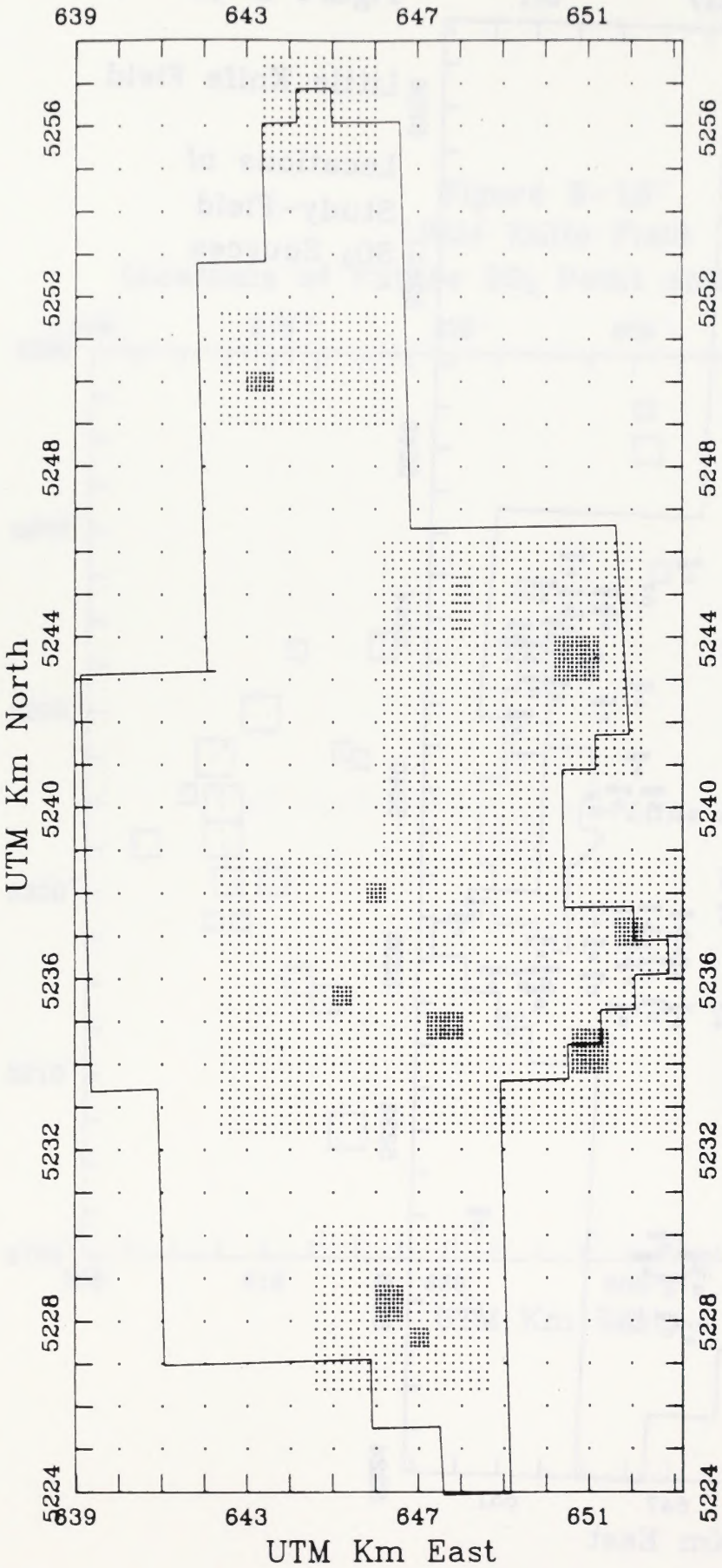


Figure B-20

Little Knife Field

ISCST
Receptor
Locations

*** LITTLE KNIFE FIELD SO2 - RECEPTOR GROUP 1 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 183
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 4
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 14
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 14
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 67897 WORDS

*** LITTLE KNIFE FIELD SO2 - RECEPTOR GROUP 1 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 0
```

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

4, 6, 2, 6,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

1,-79999, 90001,-99999, 40001,-79999, 95001,-98999, 99501,-99999, 1,-99999, 40001,-89999,
95001,-98999, 99501,-99999,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** LITTLE KNIFE FIELD SO2 - RECEPTOR GROUP 1 ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

43400.0, 43600.0, 43800.0, 44000.0, 44200.0, 44400.0, 44600.0, 44800.0, 45000.0, 45200.0,
45400.0, 45600.0, 45800.0, 46000.0,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

55000.0, 55200.0, 55400.0, 55600.0, 55800.0, 56000.0, 56200.0, 56400.0, 56600.0, 56800.0,
57000.0, 57200.0, 57400.0, 57600.0,

*** LITTLE KNIFE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
1469	0	0	0	0.17300E+00	57430.0	84236.0	0.0	6.71	1000.00	0.52	0.30	0.00	0.00	0.00
1971	0	0	0	0.67300E+00	57604.0	85012.0	0.0	6.71	1000.00	2.05	0.30	0.00	0.00	0.00
2577	0	0	0	0.10000E-02	29752.0	-7227.0	0.0	6.71	1000.00	1.55	0.30	0.00	0.00	0.00
5512	0	0	0	0.42400E+00	59139.0	80248.0	0.0	6.71	1000.00	0.93	0.30	0.00	0.00	0.00
5564	0	0	0	0.20000E-02	27136.0	-5713.0	0.0	6.71	1000.00	0.62	0.30	0.00	0.00	0.00
6205	0	0	0	0.31200E+00	45187.0	56017.0	0.0	4.88	1000.00	2.42	0.30	0.00	0.00	0.00
25512	0	0	0	0.96480E+01	59139.0	80248.0	0.0	12.19	1000.00	21.09	0.30	0.00	0.00	0.00
26205	0	0	0	0.21580E+01	45132.0	55992.0	0.0	7.01	1000.00	16.76	0.30	0.00	0.00	0.00
46200	0	0	0	0.63900E+00	44714.0	34852.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
46859	0	0	0	0.65000E-01	44283.0	36382.0	0.0	7.32	1000.00	0.50	0.30	0.00	0.00	0.00
46959	0	0	0	0.34700E+00	24971.0	44649.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
47012	0	0	0	0.57000E-01	21191.0	6938.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47297	0	0	0	0.63900E+00	48175.0	42195.0	0.0	5.18	1000.00	4.96	0.30	0.00	0.00	0.00
47337	0	0	0	0.10170E+01	28527.0	63540.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
47387	0	0	0	0.71100E+00	43894.0	33249.0	0.0	7.62	1000.00	6.20	0.30	0.00	0.00	0.00
47465	0	0	0	0.38000E-01	23158.0	14596.0	0.0	6.71	1000.00	1.23	0.30	0.00	0.00	0.00
47798	0	0	0	0.13300E+00	43545.0	34886.0	0.0	6.10	1000.00	2.04	0.30	0.00	0.00	0.00
47823	0	0	0	0.16400E+00	18934.0	61668.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48202	0	0	0	0.45700E+00	51591.0	29807.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
48271	0	0	0	0.79900E+00	50322.0	43588.0	0.0	8.53	1000.00	6.20	0.30	0.00	0.00	0.00
48403	0	0	0	0.49100E+00	62049.0	16072.0	0.0	6.71	1000.00	4.57	0.30	0.00	0.00	0.00
48436	0	0	0	0.79900E+00	50499.0	44506.0	0.0	5.49	1000.00	6.20	0.30	0.00	0.00	0.00
48469	0	0	0	0.15200E+00	43545.0	34886.0	0.0	6.10	1000.00	2.04	0.30	0.00	0.00	0.00
48476	0	0	0	0.19400E+00	45105.0	33309.0	0.0	3.66	1000.00	1.51	0.30	0.00	0.00	0.00
48567	0	0	0	0.65000E+00	91292.0	55588.0	0.0	6.71	1000.00	3.78	0.30	0.00	0.00	0.00
48588	0	0	0	0.35300E+00	50772.0	43167.0	0.0	5.49	1000.00	3.02	0.30	0.00	0.00	0.00
48677	0	0	0	0.59000E+00	44415.0	34108.0	0.0	6.40	1000.00	4.96	0.30	0.00	0.00	0.00
48726	0	0	0	0.10510E+01	43343.0	49855.0	0.0	7.62	1000.00	9.30	0.30	0.00	0.00	0.00
48927	0	0	0	0.13100E+00	43113.0	33868.0	0.0	6.71	1000.00	1.02	0.30	0.00	0.00	0.00
49000	0	0	0	0.70900E+00	51019.0	43514.0	0.0	8.84	1000.00	6.20	0.30	0.00	0.00	0.00
49195	0	0	0	0.66200E+00	51879.0	37060.0	0.0	6.71	1000.00	4.99	0.30	0.00	0.00	0.00
49421	0	0	0	0.35100E+00	50747.0	43101.0	0.0	4.88	1000.00	2.80	0.30	0.00	0.00	0.00
49552	0	0	0	0.63900E+00	52232.0	36714.0	0.0	7.92	1000.00	4.96	0.30	0.00	0.00	0.00
49582	0	0	0	0.76600E+00	49138.0	36180.0	0.0	4.57	1000.00	6.20	0.30	0.00	0.00	0.00
49641	0	0	0	0.66100E+00	16660.0	38360.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49691	0	0	0	0.63900E+00	47060.0	36934.0	0.0	8.84	1000.00	4.96	0.30	0.00	0.00	0.00
49748	0	0	0	0.39900E+00	50727.0	35420.0	0.0	9.14	1000.00	6.20	0.30	0.00	0.00	0.00
49749	0	0	0	0.47400E+00	49046.0	35374.0	0.0	6.10	1000.00	6.51	0.30	0.00	0.00	0.00
49787	0	0	0	0.10920E+01	47658.0	34875.0	0.0	4.27	1000.00	6.29	0.30	0.00	0.00	0.00

*** LITTLE KNIFE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
49799	0	0	0	0.10500E+00	44335.0	56699.0	0.0	8.53	1000.00	0.81	0.30	0.00	0.00	0.00
49815	0	0	0	0.38000E-01	62059.0	14971.0	0.0	6.71	1000.00	0.35	0.30	0.00	0.00	0.00
49862	0	0	0	0.35600E+00	22762.0	27079.0	0.0	6.71	1000.00	8.10	0.30	0.00	0.00	0.00
49900	0	0	0	0.66100E+00	11543.0	36041.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
50056	0	0	0	0.11310E+01	48306.0	34642.0	0.0	6.71	1000.00	6.12	0.30	0.00	0.00	0.00
50079	0	0	0	0.68700E+00	50323.0	36256.0	0.0	7.92	1000.00	4.96	0.30	0.00	0.00	0.00
50168	0	0	0	0.13300E+00	47023.0	34709.0	0.0	5.18	1000.00	1.03	0.30	0.00	0.00	0.00
50188	0	0	0	0.79900E+00	50340.0	35000.0	0.0	8.84	1000.00	6.20	0.30	0.00	0.00	0.00
50207	0	0	0	0.79900E+00	50185.0	35584.0	0.0	7.92	1000.00	6.20	0.30	0.00	0.00	0.00
50213	0	0	0	0.63900E+00	48521.0	36995.0	0.0	8.53	1000.00	4.96	0.30	0.00	0.00	0.00
50276	0	0	0	0.79900E+00	51442.0	35498.0	0.0	7.92	1000.00	6.20	0.30	0.00	0.00	0.00
50515	0	0	0	0.19000E+00	16718.0	80063.0	0.0	6.71	1000.00	5.78	0.30	0.00	0.00	0.00
50520	0	0	0	0.78300E+00	47272.0	29366.0	0.0	7.92	1000.00	6.08	0.30	0.00	0.00	0.00
50603	0	0	0	0.15970E+01	47084.0	28356.0	0.0	7.92	1000.00	12.40	0.30	0.00	0.00	0.00
50669	0	0	0	0.48600E+00	47573.0	28879.0	0.0	9.14	1000.00	4.96	0.30	0.00	0.00	0.00
50821	0	0	0	0.15970E+01	47103.0	27461.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
51116	0	0	0	0.63900E+00	46504.0	27323.0	0.0	8.84	1000.00	4.96	0.30	0.00	0.00	0.00
51171	0	0	0	0.15970E+01	46428.0	28420.0	0.0	7.32	1000.00	12.40	0.30	0.00	0.00	0.00
51313	0	0	0	0.14100E+00	24187.0	61137.0	0.0	6.71	1000.00	5.49	0.30	0.00	0.00	0.00
51360	0	0	0	0.49500E+00	46484.0	28999.0	0.0	8.23	1000.00	4.96	0.30	0.00	0.00	0.00
51521	0	0	0	0.79900E+00	51022.0	34344.0	0.0	8.23	1000.00	6.20	0.30	0.00	0.00	0.00
52048	0	0	0	0.12000E+00	11986.0	38975.0	0.0	6.71	1000.00	13.34	0.30	0.00	0.00	0.00
66368	0	0	0	0.57100E+01	48285.0	85190.0	0.0	12.19	1000.00	17.37	0.30	0.00	0.00	0.00
66959	0	0	0	0.83650E+01	24971.0	44649.0	0.0	6.10	1000.00	55.41	0.30	0.00	0.00	0.00
67012	0	0	0	0.26000E+00	21191.0	6938.0	0.0	3.05	1000.00	16.98	0.30	0.00	0.00	0.00
67337	0	0	0	0.13920E+01	28527.0	63540.0	0.0	6.10	1000.00	14.42	0.30	0.00	0.00	0.00
67387	0	0	0	0.57000E-01	43863.0	33293.0	0.0	2.74	1000.00	0.50	0.30	0.00	0.00	0.00
67465	0	0	0	0.10000E-02	23158.0	14596.0	0.0	3.05	1000.00	0.04	0.30	0.00	0.00	0.00
67823	0	0	0	0.15370E+01	18934.0	61668.0	0.0	3.05	1000.00	58.12	0.30	0.00	0.00	0.00
68075	0	0	0	0.17000E-01	13697.0	20486.0	0.0	3.05	1000.00	1.43	0.30	0.00	0.00	0.00
68202	0	0	0	0.17020E+01	51591.0	29807.0	0.0	0.30	1000.00	13.84	0.30	0.00	0.00	0.00
68271	0	0	0	0.34800E+00	50359.0	43628.0	0.0	3.05	1000.00	2.70	0.30	0.00	0.00	0.00
68275	0	0	0	0.59900E+00	69042.0	25493.0	0.0	3.66	1000.00	6.45	0.30	0.00	0.00	0.00
68567	0	0	0	0.31640E+01	91292.0	55588.0	0.0	6.10	1000.00	18.41	0.30	0.00	0.00	0.00
68726	0	0	0	0.97100E+00	43320.0	49877.0	0.0	3.66	1000.00	8.60	0.30	0.00	0.00	0.00
69000	0	0	0	0.32100E+00	51068.0	43523.0	0.0	2.44	1000.00	2.81	0.30	0.00	0.00	0.00
69195	0	0	0	0.69100E+00	51897.0	37106.0	0.0	2.74	1000.00	5.21	0.30	0.00	0.00	0.00
69421	0	0	0	0.64000E-01	50708.0	43137.0	0.0	3.05	1000.00	0.51	0.30	0.00	0.00	0.00
69582	0	0	0	0.15000E-01	49117.0	36230.0	0.0	3.05	1000.00	0.12	0.30	0.00	0.00	0.00

*** LITTLE KNIFE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
69748	0	0	0	0.74000E-01	50730.0	35474.0	0.0	3.05	1000.00	1.15	0.30	0.00	0.00	0.00
69749	0	0	0	0.59000E-01	49094.0	35347.0	0.0	3.05	1000.00	0.80	0.30	0.00	0.00	0.00
69787	0	0	0	0.76000E-01	47632.0	34861.0	0.0	1.83	1000.00	0.44	0.30	0.00	0.00	0.00
70056	0	0	0	0.82000E-01	48279.0	34674.0	0.0	3.05	1000.00	0.44	0.30	0.00	0.00	0.00
70188	0	0	0	0.22400E+00	50348.0	35049.0	0.0	2.74	1000.00	1.74	0.30	0.00	0.00	0.00
70207	0	0	0	0.43500E+00	50167.0	35562.0	0.0	5.49	1000.00	3.38	0.30	0.00	0.00	0.00
70515	0	0	0	0.11700E+00	16718.0	80063.0	0.0	3.05	1000.00	3.54	0.30	0.00	0.00	0.00
70520	0	0	0	0.75000E-01	47270.0	29409.0	0.0	3.05	1000.00	0.58	0.30	0.00	0.00	0.00
70603	0	0	0	0.81000E-01	47100.0	28415.0	0.0	3.35	1000.00	0.63	0.30	0.00	0.00	0.00
70821	0	0	0	0.20100E+00	47094.0	27511.0	0.0	3.05	1000.00	1.56	0.30	0.00	0.00	0.00
71171	0	0	0	0.35200E+00	46455.0	28458.0	0.0	3.05	1000.00	2.73	0.30	0.00	0.00	0.00
71313	0	0	0	0.13200E+00	24187.0	61137.0	0.0	3.05	1000.00	5.14	0.30	0.00	0.00	0.00
71521	0	0	0	0.87000E+00	51044.0	34360.0	0.0	4.27	1000.00	6.75	0.30	0.00	0.00	0.00
72048	0	0	0	0.13800E+00	11986.0	38975.0	0.0	3.05	1000.00	15.35	0.30	0.00	0.00	0.00
80101	0	0	0	0.10000E-02	27406.0	10124.0	0.0	6.71	1000.00	3.13	0.30	0.00	0.00	0.00
80102	0	0	0	0.49000E-01	27465.0	7714.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80103	0	0	0	0.10000E-02	26661.0	7697.0	0.0	6.71	1000.00	3.13	0.30	0.00	0.00	0.00
80104	0	0	0	0.49000E-01	24246.0	6832.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80216	0	0	0	0.24100E+00	16868.0	13908.0	0.0	6.71	1000.00	7.76	0.30	0.00	0.00	0.00
80301	0	0	0	0.64500E+00	44699.0	50880.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80302	0	0	0	0.64500E+00	45514.0	50111.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80306	0	0	0	0.64500E+00	49202.0	39630.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80308	0	0	0	0.64500E+00	46039.0	37144.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80309	0	0	0	0.64500E+00	45283.0	35516.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80310	0	0	0	0.64500E+00	45298.0	33928.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80311	0	0	0	0.64500E+00	46089.0	34739.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80312	0	0	0	0.64500E+00	45481.0	27483.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80314	0	0	0	0.64500E+00	47879.0	27547.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80503	0	0	0	0.31100E+00	17349.0	53031.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80703	0	0	0	0.19000E+00	15969.0	77495.0	0.0	6.71	1000.00	5.78	0.30	0.00	0.00	0.00
81001	0	0	0	0.23410E+01	45086.0	66059.0	0.0	6.71	1000.00	6.64	0.30	0.00	0.00	0.00
81401	0	0	0	0.23100E+00	26476.0	15738.0	0.0	6.71	1000.00	6.70	0.30	0.00	0.00	0.00
81501	0	0	0	0.52000E-01	20960.0	10779.0	0.0	6.71	1000.00	2.78	0.30	0.00	0.00	0.00
81502	0	0	0	0.52000E-01	20197.0	7545.0	0.0	6.71	1000.00	2.78	0.30	0.00	0.00	0.00
85304	0	0	0	0.34300E+00	48064.0	44550.0	0.0	3.05	1000.00	2.71	0.30	0.00	0.00	0.00
85307	0	0	0	0.34300E+00	46027.0	37943.0	0.0	3.05	1000.00	2.71	0.30	0.00	0.00	0.00
85309	0	0	0	0.34300E+00	45259.0	35540.0	0.0	3.05	1000.00	2.71	0.30	0.00	0.00	0.00
85503	0	0	0	0.33700E+00	17373.0	53055.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85702	0	0	0	0.11700E+00	16763.0	78315.0	0.0	3.05	1000.00	3.54	0.30	0.00	0.00	0.00

*** LITTLE KNIFE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
88001	2	0	0	0.24000E-06	18000.0	56000.0	0.0	9.34	0.00	2000.00	0.00	0.00	0.00	0.00
88002	2	0	0	0.40900E-06	27000.0	56000.0	0.0	11.75	0.00	3000.00	0.00	0.00	0.00	0.00
88003	2	0	0	0.71100E-06	13000.0	48000.0	0.0	11.06	0.00	4000.00	0.00	0.00	0.00	0.00
88004	2	0	0	0.24300E-06	8000.0	43000.0	0.0	8.79	0.00	4000.00	0.00	0.00	0.00	0.00
88005	2	0	0	0.32400E-06	23000.0	45000.0	0.0	8.79	0.00	2000.00	0.00	0.00	0.00	0.00
88006	2	0	0	0.97400E-05	25000.0	44000.0	0.0	39.81	0.00	2000.00	0.00	0.00	0.00	0.00
88007	2	0	0	0.26800E-06	6000.0	40000.0	0.0	10.23	0.00	2000.00	0.00	0.00	0.00	0.00
88008	2	0	0	0.22200E-06	9000.0	38000.0	0.0	12.71	0.00	4000.00	0.00	0.00	0.00	0.00
88009	2	0	0	0.10700E-06	9000.0	34000.0	0.0	9.87	0.00	4000.00	0.00	0.00	0.00	0.00
88010	2	0	0	0.47600E-06	1000.0	34000.0	0.0	14.22	0.00	3000.00	0.00	0.00	0.00	0.00
88011	2	0	0	0.14600E-06	10000.0	30000.0	0.0	9.67	0.00	3000.00	0.00	0.00	0.00	0.00
88012	2	0	0	0.11400E-06	15000.0	30000.0	0.0	9.47	0.00	3000.00	0.00	0.00	0.00	0.00
88013	2	0	0	0.63800E-06	9000.0	26000.0	0.0	10.87	0.00	2000.00	0.00	0.00	0.00	0.00
88014	2	0	0	0.17100E-06	12000.0	26000.0	0.0	9.47	0.00	2000.00	0.00	0.00	0.00	0.00
88015	2	0	0	0.81100E-07	18000.0	19000.0	0.0	11.63	0.00	3000.00	0.00	0.00	0.00	0.00
88016	2	0	0	0.11700E-06	21000.0	17000.0	0.0	9.81	0.00	3000.00	0.00	0.00	0.00	0.00
88017	2	0	0	0.17500E-07	23000.0	2000.0	0.0	10.26	0.00	4000.00	0.00	0.00	0.00	0.00
88018	2	0	0	0.17300E-05	56000.0	83000.0	0.0	16.77	0.00	2000.00	0.00	0.00	0.00	0.00
88019	2	0	0	0.14000E-05	56000.0	78000.0	0.0	20.14	0.00	3000.00	0.00	0.00	0.00	0.00
88020	2	0	0	0.18300E-05	43000.0	63000.0	0.0	17.36	0.00	2000.00	0.00	0.00	0.00	0.00
88021	2	0	0	0.25300E-05	58000.0	65000.0	0.0	13.08	0.00	2000.00	0.00	0.00	0.00	0.00
90001	2	0	0	0.13200E-06	9000.0	72000.0	0.0	11.86	0.00	3000.00	0.00	0.00	0.00	0.00
90010	2	0	0	0.21600E-06	7000.0	43000.0	0.0	9.09	0.00	4000.00	0.00	0.00	0.00	0.00
90017	2	0	0	0.28800E-07	12000.0	32000.0	0.0	8.79	0.00	4000.00	0.00	0.00	0.00	0.00
90019	2	0	0	0.25400E-06	10000.0	31000.0	0.0	10.73	0.00	2000.00	0.00	0.00	0.00	0.00
90032	2	0	0	0.22200E-09	24000.0	3000.0	0.0	7.62	0.00	3000.00	0.00	0.00	0.00	0.00
90036	2	0	0	0.25300E-05	58000.0	65000.0	0.0	12.48	0.00	2000.00	0.00	0.00	0.00	0.00
90038	2	0	0	0.13800E-08	39000.0	-8000.0	0.0	4.06	0.00	4000.00	0.00	0.00	0.00	0.00
95001	2	0	0	0.14300E-07	9000.0	72000.0	0.0	9.49	0.00	3000.00	0.00	0.00	0.00	0.00
95002	2	0	0	0.22600E-07	8000.0	64000.0	0.0	8.63	0.00	4000.00	0.00	0.00	0.00	0.00
95003	2	0	0	0.18800E-06	8000.0	62000.0	0.0	11.47	0.00	2000.00	0.00	0.00	0.00	0.00
95004	2	0	0	0.51400E-07	9000.0	56000.0	0.0	10.12	0.00	3000.00	0.00	0.00	0.00	0.00
95005	2	0	0	0.25500E-06	17000.0	56000.0	0.0	11.22	0.00	2000.00	0.00	0.00	0.00	0.00
95006	2	0	0	0.91900E-06	26000.0	56000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95007	2	0	0	0.15000E-06	17000.0	52000.0	0.0	8.23	0.00	3000.00	0.00	0.00	0.00	0.00
95008	2	0	0	0.36200E-06	13000.0	47000.0	0.0	9.35	0.00	4000.00	0.00	0.00	0.00	0.00
95009	2	0	0	0.10600E-05	13000.0	45000.0	0.0	17.41	0.00	2000.00	0.00	0.00	0.00	0.00
95010	2	0	0	0.39500E-06	7000.0	43000.0	0.0	34.51	0.00	4000.00	0.00	0.00	0.00	0.00
95011	2	0	0	0.40400E-06	6000.0	41000.0	0.0	10.74	0.00	2000.00	0.00	0.00	0.00	0.00

*** LITTLE KNIFE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	AK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
95012	2	0	0	0.33200E-06	9000.0	39000.0	0.0	15.09	0.00	3000.00	0.00	0.00	0.00	0.00
95013	2	0	0	0.51300E-07	13000.0	40000.0	0.0	8.10	0.00	3000.00	0.00	0.00	0.00	0.00
95014	2	0	0	0.10700E-05	2000.0	35000.0	0.0	14.44	0.00	2000.00	0.00	0.00	0.00	0.00
95015	2	0	0	0.26500E-06	6000.0	35000.0	0.0	10.12	0.00	4000.00	0.00	0.00	0.00	0.00
95016	2	0	0	0.79100E-06	12000.0	36000.0	0.0	12.81	0.00	4000.00	0.00	0.00	0.00	0.00
95017	2	0	0	0.58400E-06	12000.0	32000.0	0.0	12.62	0.00	4000.00	0.00	0.00	0.00	0.00
95018	2	0	0	0.22700E-06	12000.0	28000.0	0.0	9.77	0.00	4000.00	0.00	0.00	0.00	0.00
95020	2	0	0	0.14400E-06	21000.0	23000.0	0.0	11.42	0.00	3000.00	0.00	0.00	0.00	0.00
95021	2	0	0	0.15100E-06	19000.0	19000.0	0.0	12.41	0.00	4000.00	0.00	0.00	0.00	0.00
95022	2	0	0	0.14100E-06	25000.0	21000.0	0.0	12.73	0.00	3000.00	0.00	0.00	0.00	0.00
95023	2	0	0	0.11300E-06	16000.0	15000.0	0.0	12.26	0.00	4000.00	0.00	0.00	0.00	0.00
95024	2	0	0	0.29800E-06	20000.0	15000.0	0.0	12.87	0.00	4000.00	0.00	0.00	0.00	0.00
95025	2	0	0	0.22500E-06	24000.0	17000.0	0.0	11.07	0.00	4000.00	0.00	0.00	0.00	0.00
95026	2	0	0	0.21100E-06	16000.0	11000.0	0.0	12.88	0.00	4000.00	0.00	0.00	0.00	0.00
95027	2	0	0	0.14700E-06	20000.0	12000.0	0.0	11.70	0.00	3000.00	0.00	0.00	0.00	0.00
95028	2	0	0	0.24500E-06	24000.0	13000.0	0.0	12.28	0.00	4000.00	0.00	0.00	0.00	0.00
95029	2	0	0	0.62100E-07	15000.0	5000.0	0.0	10.98	0.00	6000.00	0.00	0.00	0.00	0.00
95030	2	0	0	0.42000E-07	25000.0	10000.0	0.0	9.34	0.00	3000.00	0.00	0.00	0.00	0.00
95031	2	0	0	0.41100E-07	24000.0	6000.0	0.0	10.36	0.00	4000.00	0.00	0.00	0.00	0.00
95032	2	0	0	0.28800E-07	24000.0	3000.0	0.0	10.65	0.00	3000.00	0.00	0.00	0.00	0.00
95033	2	0	0	0.27300E-07	24000.0	1000.0	0.0	6.17	0.00	2000.00	0.00	0.00	0.00	0.00
95034	2	0	0	0.23400E-05	42000.0	66000.0	0.0	11.94	0.00	3000.00	0.00	0.00	0.00	0.00
95035	2	0	0	0.34800E-05	42000.0	63000.0	0.0	35.38	0.00	2000.00	0.00	0.00	0.00	0.00
95037	2	0	0	0.80600E-06	47000.0	15000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95038	2	0	0	0.35000E-08	39000.0	-8000.0	0.0	8.67	0.00	4000.00	0.00	0.00	0.00	0.00
99501	0	0	0	0.28400E+02	34200.0	20100.0	0.0	30.50	866.00	15.00	1.10	0.00	0.00	0.00
99502	0	0	0	0.53800E+02	43800.0	39700.0	0.0	59.50	870.00	10.00	1.80	0.00	0.00	0.00

Lone Butte Field

Figure B-21
Lone Butte Field
Locations of Existing SO_2 Point and Area Sources

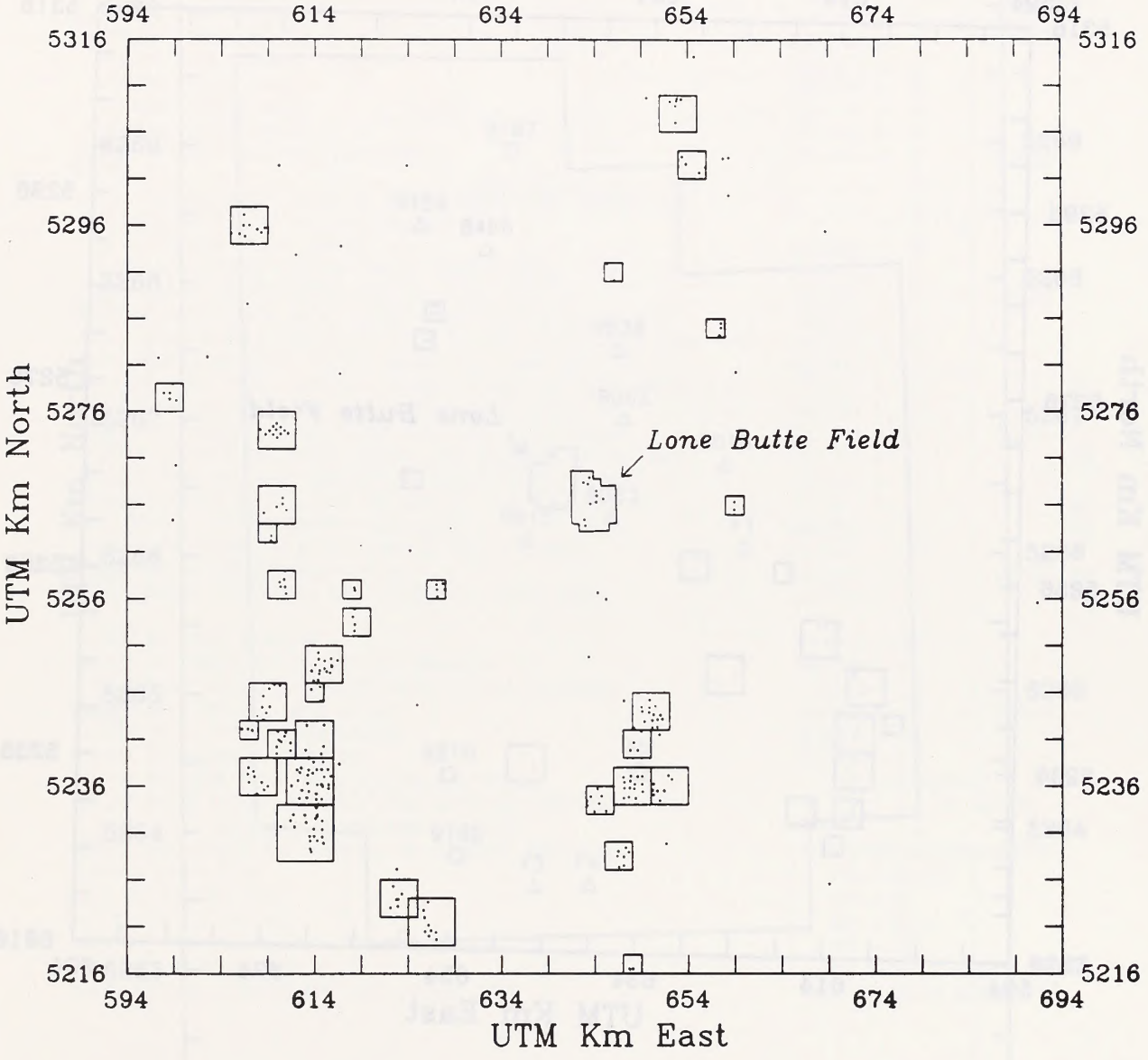


Figure B-22
Lone Butte Field
Locations of Future SO_2 Point and Area Sources

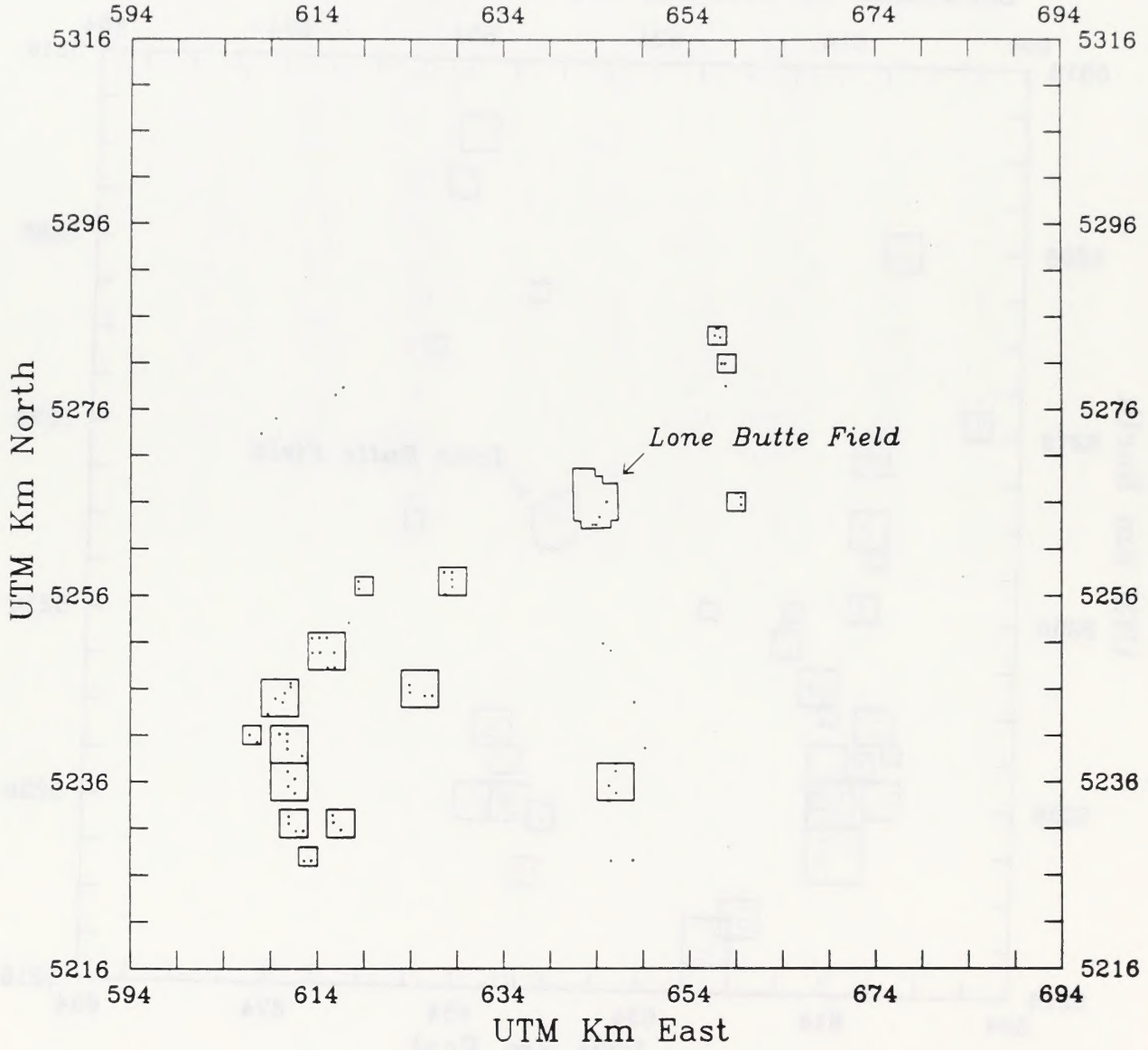


Figure B-23
Lone Butte Field
Locations of Study-Field SO_2 Sources

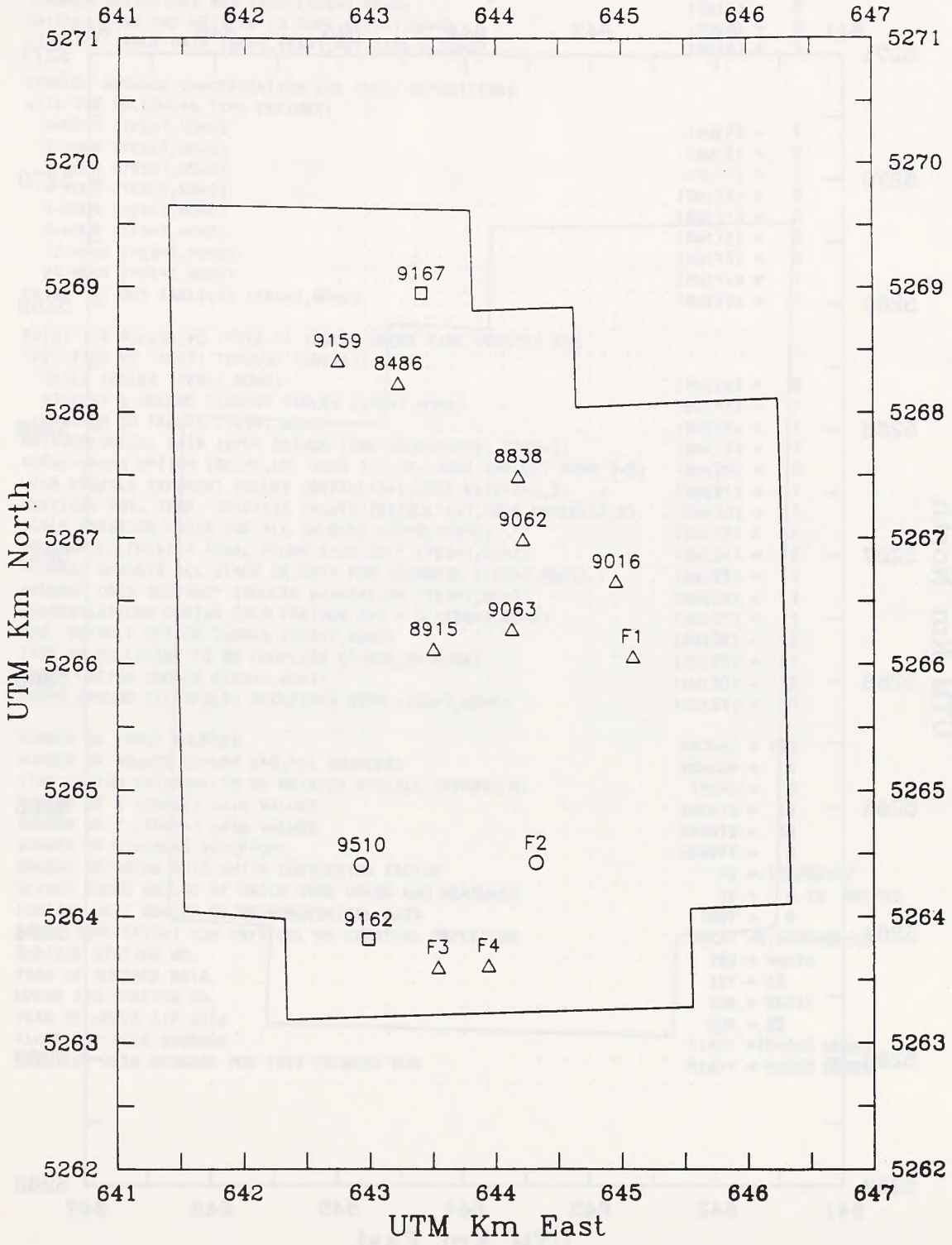
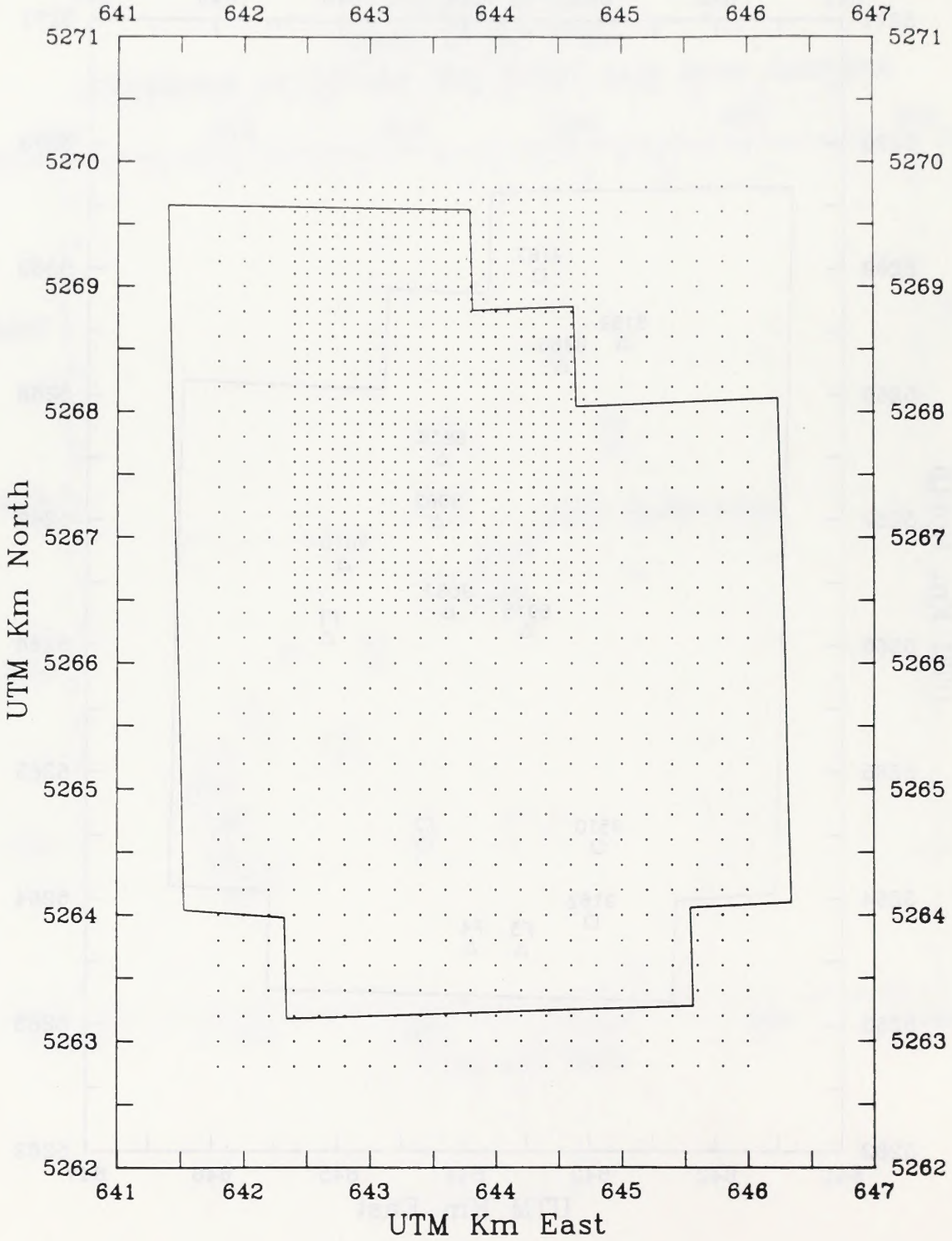


Figure B-24
Lone Butte Field
ISCST Receptor Locations



CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 130
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 4
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 22
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 36
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 92052 WORDS

*** LONE BUTTE FIELD SO2 - RECEPTOR GROUP 1 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 0
```

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

4, 6, 2, 6,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

1,-79999, 90001,-99999, 40001,-79999, 95001,-98999, 99501,-99999, 1,-99999, 40001,-89999,
95001,-98999, 99501,-99999,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** LONE BUTTE FIELD SO2 - RECEPTOR GROUP 1 ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

41800.0, 42000.0, 42200.0, 42400.0, 42600.0, 42800.0, 43000.0, 43200.0, 43400.0, 43600.0,
43800.0, 44000.0, 44200.0, 44400.0, 44600.0, 44800.0, 45000.0, 45200.0, 45400.0, 45600.0,
45800.0, 46000.0,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

-37200.0, -37000.0, -36800.0, -36600.0, -36400.0, -36200.0, -36000.0, -35800.0, -35600.0, -35400.0,
-35200.0, -35000.0, -34800.0, -34600.0, -34400.0, -34200.0, -34000.0, -33800.0, -33600.0, -33400.0,
-33200.0, -33000.0, -32800.0, -32600.0, -32400.0, -32200.0, -32000.0, -31800.0, -31600.0, -31400.0,
-31200.0, -31000.0, -30800.0, -30600.0, -30400.0, -30200.0,

*** LONE BUTTE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
5512	0	0	0	0.42400E+00	59139.0	-19752.0	0.0	6.71	1000.00	0.93	0.30	0.00	0.00	0.00
5774	0	0	0	0.10000E-02	11996.0	-7138.0	0.0	6.71	1000.00	2.67	0.30	0.00	0.00	0.00
6205	0	0	0	0.31200E+00	45213.0	-44061.0	0.0	6.71	1000.00	2.42	0.30	0.00	0.00	0.00
22836	0	0	0	0.11000E-01	54715.0	14212.0	0.0	3.05	1000.00	0.08	0.30	0.00	0.00	0.00
25512	0	0	0	0.96480E+01	59139.0	-19752.0	0.0	12.19	1000.00	21.09	0.30	0.00	0.00	0.00
25774	0	0	0	0.10000E-02	11996.0	-7138.0	0.0	0.30	1000.00	2.67	0.30	0.00	0.00	0.00
26205	0	0	0	0.21580E+01	45213.0	-44061.0	0.0	6.10	1000.00	16.76	0.30	0.00	0.00	0.00
46959	0	0	0	0.34700E+00	24971.0	-55351.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
47133	0	0	0	0.63900E+00	47112.0	-54871.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
47337	0	0	0	0.10170E+01	28527.0	-36460.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
47478	0	0	0	0.60000E-02	-2686.0	-18255.0	0.0	6.71	1000.00	2.61	0.30	0.00	0.00	0.00
47673	0	0	0	0.14960E+01	68724.0	-4678.0	0.0	6.71	1000.00	5.58	0.30	0.00	0.00	0.00
47823	0	0	0	0.16400E+00	18934.0	-38332.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48202	0	0	0	0.45700E+00	51591.0	-70193.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
48372	0	0	0	0.50300E+00	16789.0	-6236.0	0.0	6.71	1000.00	3.20	0.30	0.00	0.00	0.00
48567	0	0	0	0.65000E+00	91292.0	-44412.0	0.0	6.71	1000.00	3.78	0.30	0.00	0.00	0.00
48717	0	0	0	0.30000E-02	2546.0	-18172.0	0.0	6.71	1000.00	2.80	0.30	0.00	0.00	0.00
48726	0	0	0	0.10510E+01	43298.0	-50155.0	0.0	7.62	1000.00	9.30	0.30	0.00	0.00	0.00
48737	0	0	0	0.11100E+00	-805.0	-29849.0	0.0	8.53	1000.00	3.54	0.30	0.00	0.00	0.00
48838	0	0	0	0.19060E+01	44188.0	-32562.0	0.0	8.23	1000.00	6.20	0.30	0.00	0.00	0.00
48915	0	0	0	0.12840E+01	43551.0	-33878.0	0.0	8.23	1000.00	6.20	0.30	0.00	0.00	0.00
49016	0	0	0	0.27480E+01	44905.0	-33365.0	0.0	8.84	1000.00	6.20	0.30	0.00	0.00	0.00
49062	0	0	0	0.20390E+01	44185.0	-32981.0	0.0	9.45	1000.00	6.20	0.30	0.00	0.00	0.00
49063	0	0	0	0.23490E+01	44185.0	-32981.0	0.0	9.45	1000.00	6.20	0.30	0.00	0.00	0.00
49159	0	0	0	0.28320E+01	42716.0	-31552.0	0.0	6.71	1000.00	9.15	0.30	0.00	0.00	0.00
49162	0	0	0	0.12340E+01	42956.0	-36218.0	0.0	4.88	1000.00	6.12	0.30	0.00	0.00	0.00
49167	0	0	0	0.38870E+01	43388.0	-31011.0	0.0	4.88	1000.00	7.16	0.30	0.00	0.00	0.00
49300	0	0	0	0.74500E+00	10204.0	2367.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
49553	0	0	0	0.53800E+00	50960.0	-58506.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
49641	0	0	0	0.66100E+00	16660.0	-61640.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49799	0	0	0	0.10500E+00	44293.0	-43319.0	0.0	6.71	1000.00	0.81	0.30	0.00	0.00	0.00
49862	0	0	0	0.35600E+00	22762.0	-72921.0	0.0	6.71	1000.00	8.10	0.30	0.00	0.00	0.00
50515	0	0	0	0.19000E+00	16718.0	-19937.0	0.0	6.71	1000.00	5.78	0.30	0.00	0.00	0.00
50951	0	0	0	0.20000E-02	-1114.0	-35652.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
51313	0	0	0	0.14100E+00	24187.0	-38863.0	0.0	6.71	1000.00	5.49	0.30	0.00	0.00	0.00
66959	0	0	0	0.83650E+01	24971.0	-55351.0	0.0	6.10	1000.00	55.41	0.30	0.00	0.00	0.00
67337	0	0	0	0.13920E+01	28527.0	-36460.0	0.0	6.10	1000.00	14.42	0.30	0.00	0.00	0.00
67673	0	0	0	0.43220E+01	68724.0	-4678.0	0.0	9.14	1000.00	16.12	0.30	0.00	0.00	0.00
67823	0	0	0	0.15370E+01	18934.0	-38332.0	0.0	3.05	1000.00	58.12	0.30	0.00	0.00	0.00

*** LONE BUTTE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
68083	0	0	0	0.20000E-02	58362.0	-811.0	0.0	0.30	1000.00	0.73	0.30	0.00	0.00	0.00
68202	0	0	0	0.17020E+01	51591.0	-70193.0	0.0	0.30	1000.00	13.84	0.30	0.00	0.00	0.00
68275	0	0	0	0.59900E+00	69042.0	-74507.0	0.0	3.66	1000.00	6.45	0.30	0.00	0.00	0.00
68301	0	0	0	0.10000E-02	57805.0	3179.0	0.0	0.30	1000.00	0.46	0.30	0.00	0.00	0.00
68567	0	0	0	0.31640E+01	91292.0	-44412.0	0.0	6.10	1000.00	18.41	0.30	0.00	0.00	0.00
68717	0	0	0	0.18000E-01	2546.0	-18172.0	0.0	0.30	1000.00	17.91	0.30	0.00	0.00	0.00
68726	0	0	0	0.97100E+00	43298.0	-50155.0	0.0	3.05	1000.00	8.60	0.30	0.00	0.00	0.00
69162	0	0	0	0.10000E+00	42926.0	-36198.0	0.0	12.19	1000.00	0.50	0.30	0.00	0.00	0.00
69167	0	0	0	0.12490E+01	43419.0	-31004.0	0.0	10.06	1000.00	2.30	0.30	0.00	0.00	0.00
69510	0	0	0	0.12574E+02	42909.0	-35965.0	0.0	11.58	1000.00	68.51	0.30	0.00	0.00	0.00
70515	0	0	0	0.11700E+00	16718.0	-19937.0	0.0	3.05	1000.00	3.54	0.30	0.00	0.00	0.00
70816	0	0	0	0.13300E+00	6848.0	-12407.0	0.0	0.30	1000.00	5.42	0.30	0.00	0.00	0.00
71313	0	0	0	0.13200E+00	24187.0	-38863.0	0.0	3.05	1000.00	5.14	0.30	0.00	0.00	0.00
71401	0	0	0	0.30000E-02	49608.0	9692.0	0.0	3.05	1000.00	0.07	0.30	0.00	0.00	0.00
71926	0	0	0	0.26000E-01	23895.0	2382.0	0.0	6.10	1000.00	0.15	0.30	0.00	0.00	0.00
72052	0	0	0	0.32000E-01	58394.0	3307.0	0.0	7.62	1000.00	2.10	0.30	0.00	0.00	0.00
80301	0	0	0	0.64500E+00	44699.0	-49120.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80302	0	0	0	0.64500E+00	45514.0	-49889.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80306	0	0	0	0.64500E+00	49202.0	-60370.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80310	0	0	0	0.64500E+00	45298.0	-66072.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80312	0	0	0	0.64500E+00	45481.0	-72517.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80314	0	0	0	0.64500E+00	47879.0	-72453.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80503	0	0	0	0.31100E+00	17349.0	-46969.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80703	0	0	0	0.19000E+00	15969.0	-22505.0	0.0	6.71	1000.00	5.78	0.30	0.00	0.00	0.00
81001	0	0	0	0.23410E+01	45086.0	-33941.0	0.0	6.71	1000.00	6.64	0.30	0.00	0.00	0.00
81003	0	0	0	0.23410E+01	43538.0	-36403.0	0.0	6.71	1000.00	6.64	0.30	0.00	0.00	0.00
81004	0	0	0	0.34700E+00	43940.0	-36391.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
81112	0	0	0	0.40700E+00	57954.0	-21470.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
82001	0	0	0	0.12600E+00	9559.0	-25037.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
82002	0	0	0	0.12600E+00	7990.0	-26672.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
85304	0	0	0	0.34300E+00	48064.0	-55450.0	0.0	3.05	1000.00	2.71	0.30	0.00	0.00	0.00
85503	0	0	0	0.33700E+00	17373.0	-46945.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85702	0	0	0	0.11700E+00	16763.0	-21685.0	0.0	3.05	1000.00	3.54	0.30	0.00	0.00	0.00
86002	0	0	0	0.46410E+01	44317.0	-35576.0	0.0	9.14	1000.00	23.77	0.30	0.00	0.00	0.00
86112	0	0	0	0.17400E+01	57956.0	-21436.0	0.0	9.14	1000.00	3.10	0.30	0.00	0.00	0.00
88001	2	0	0	0.24000E-06	18000.0	-44000.0	0.0	9.34	0.00	2000.00	0.00	0.00	0.00	0.00
88002	2	0	0	0.40900E-06	27000.0	-44000.0	0.0	11.75	0.00	3000.00	0.00	0.00	0.00	0.00
88003	2	0	0	0.71100E-06	13000.0	-52000.0	0.0	11.06	0.00	4000.00	0.00	0.00	0.00	0.00
88004	2	0	0	0.24300E-06	8000.0	-57000.0	0.0	8.79	0.00	4000.00	0.00	0.00	0.00	0.00

*** LONE BUTTE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
88005	2	0	0	0.25200E-05	23000.0	-56000.0	0.0	38.99	0.00	4000.00	0.00	0.00	0.00	0.00
88006	2	0	0	0.26800E-06	6000.0	-60000.0	0.0	10.23	0.00	2000.00	0.00	0.00	0.00	0.00
88007	2	0	0	0.22200E-06	9000.0	-62000.0	0.0	12.71	0.00	4000.00	0.00	0.00	0.00	0.00
88008	2	0	0	0.10700E-06	9000.0	-66000.0	0.0	9.87	0.00	4000.00	0.00	0.00	0.00	0.00
88009	2	0	0	0.14600E-06	10000.0	-70000.0	0.0	9.67	0.00	3000.00	0.00	0.00	0.00	0.00
88010	2	0	0	0.11400E-06	15000.0	-70000.0	0.0	9.47	0.00	3000.00	0.00	0.00	0.00	0.00
88011	2	0	0	0.17100E-06	12000.0	-73000.0	0.0	9.47	0.00	2000.00	0.00	0.00	0.00	0.00
88012	2	0	0	0.17300E-05	56000.0	-17000.0	0.0	16.77	0.00	2000.00	0.00	0.00	0.00	0.00
88013	2	0	0	0.26200E-05	57000.0	-20000.0	0.0	21.76	0.00	2000.00	0.00	0.00	0.00	0.00
88014	2	0	0	0.25300E-05	58000.0	-35000.0	0.0	13.08	0.00	2000.00	0.00	0.00	0.00	0.00
88015	2	0	0	0.16400E-06	44000.0	-66000.0	0.0	9.04	0.00	4000.00	0.00	0.00	0.00	0.00
90002	2	0	0	0.92200E-08	-3000.0	-24000.0	0.0	14.54	0.00	3000.00	0.00	0.00	0.00	0.00
90003	2	0	0	0.86700E-07	8000.0	-28000.0	0.0	11.69	0.00	4000.00	0.00	0.00	0.00	0.00
90012	2	0	0	0.21600E-06	7000.0	-57000.0	0.0	9.09	0.00	4000.00	0.00	0.00	0.00	0.00
90018	2	0	0	0.41000E-07	10000.0	-72000.0	0.0	10.16	0.00	6000.00	0.00	0.00	0.00	0.00
90022	2	0	0	0.87800E-08	53000.0	1000.0	0.0	17.92	0.00	3000.00	0.00	0.00	0.00	0.00
90023	2	0	0	0.15300E-06	45000.0	-10000.0	0.0	13.63	0.00	2000.00	0.00	0.00	0.00	0.00
90024	2	0	0	0.21100E-06	56000.0	-16000.0	0.0	8.33	0.00	2000.00	0.00	0.00	0.00	0.00
90025	2	0	0	0.25300E-05	58000.0	-35000.0	0.0	12.48	0.00	2000.00	0.00	0.00	0.00	0.00
95001	2	0	0	0.56400E-07	5000.0	-6000.0	0.0	11.61	0.00	4000.00	0.00	0.00	0.00	0.00
95002	2	0	0	0.15600E-08	-3000.0	-24000.0	0.0	10.87	0.00	3000.00	0.00	0.00	0.00	0.00
95003	2	0	0	0.80600E-08	8000.0	-28000.0	0.0	9.49	0.00	4000.00	0.00	0.00	0.00	0.00
95004	2	0	0	0.22600E-07	8000.0	-36000.0	0.0	8.63	0.00	4000.00	0.00	0.00	0.00	0.00
95005	2	0	0	0.18800E-06	8000.0	-38000.0	0.0	11.47	0.00	2000.00	0.00	0.00	0.00	0.00
95006	2	0	0	0.51400E-07	9000.0	-44000.0	0.0	10.12	0.00	3000.00	0.00	0.00	0.00	0.00
95007	2	0	0	0.25500E-06	17000.0	-44000.0	0.0	11.22	0.00	2000.00	0.00	0.00	0.00	0.00
95008	2	0	0	0.91900E-06	26000.0	-44000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95009	2	0	0	0.15000E-06	17000.0	-48000.0	0.0	8.23	0.00	3000.00	0.00	0.00	0.00	0.00
95010	2	0	0	0.36200E-06	13000.0	-53000.0	0.0	9.35	0.00	4000.00	0.00	0.00	0.00	0.00
95011	2	0	0	0.10600E-05	13000.0	-55000.0	0.0	17.41	0.00	2000.00	0.00	0.00	0.00	0.00
95012	2	0	0	0.39500E-06	7000.0	-57000.0	0.0	34.51	0.00	4000.00	0.00	0.00	0.00	0.00
95013	2	0	0	0.40400E-06	6000.0	-59000.0	0.0	10.74	0.00	2000.00	0.00	0.00	0.00	0.00
95014	2	0	0	0.33200E-06	9000.0	-61000.0	0.0	15.09	0.00	3000.00	0.00	0.00	0.00	0.00
95015	2	0	0	0.15400E-06	12000.0	-61000.0	0.0	10.77	0.00	4000.00	0.00	0.00	0.00	0.00
95016	2	0	0	0.26500E-06	6000.0	-65000.0	0.0	10.12	0.00	4000.00	0.00	0.00	0.00	0.00
95017	2	0	0	0.70300E-06	11000.0	-66000.0	0.0	13.33	0.00	5000.00	0.00	0.00	0.00	0.00
95018	2	0	0	0.19300E-06	10000.0	-72000.0	0.0	10.17	0.00	6000.00	0.00	0.00	0.00	0.00
95019	2	0	0	0.80900E-07	21000.0	-78000.0	0.0	11.42	0.00	4000.00	0.00	0.00	0.00	0.00
95020	2	0	0	0.88900E-07	24000.0	-81000.0	0.0	11.91	0.00	5000.00	0.00	0.00	0.00	0.00

*** LONE BUTTE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
95021	2	0	0	0.71500E-07	51000.0	6000.0	0.0	9.37	0.00	4000.00	0.00	0.00	0.00	0.00
95022	2	0	0	0.18600E-07	53000.0	1000.0	0.0	7.78	0.00	3000.00	0.00	0.00	0.00	0.00
95024	2	0	0	0.14300E-05	56000.0	-16000.0	0.0	21.34	0.00	2000.00	0.00	0.00	0.00	0.00
95026	2	0	0	0.64700E-06	48000.0	-58000.0	0.0	10.29	0.00	4000.00	0.00	0.00	0.00	0.00
95027	2	0	0	0.28500E-06	47000.0	-61000.0	0.0	10.51	0.00	3000.00	0.00	0.00	0.00	0.00
95028	2	0	0	0.29700E-06	43000.0	-67000.0	0.0	9.79	0.00	3000.00	0.00	0.00	0.00	0.00
95029	2	0	0	0.65000E-06	46000.0	-66000.0	0.0	10.51	0.00	4000.00	0.00	0.00	0.00	0.00
95030	2	0	0	0.49200E-06	50000.0	-66000.0	0.0	9.64	0.00	4000.00	0.00	0.00	0.00	0.00
95031	2	0	0	0.87800E-06	45000.0	-73000.0	0.0	12.16	0.00	3000.00	0.00	0.00	0.00	0.00
95032	2	0	0	0.80600E-06	47000.0	-84000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
99501	0	0	0	0.28400E+02	34200.0	-79900.0	0.0	30.50	866.00	15.00	1.10	0.00	0.00	0.00
99502	0	0	0	0.53800E+02	43800.0	-60300.0	0.0	59.50	870.00	10.00	1.80	0.00	0.00	0.00
99503	0	0	0	0.19000E+01	28904.0	-4568.0	0.0	13.90	440.00	19.50	0.40	0.00	0.00	0.00

Lost Bridge Field

Figure B-25
Lost Bridge Field
Locations of Existing SO_2 Point and Area Sources

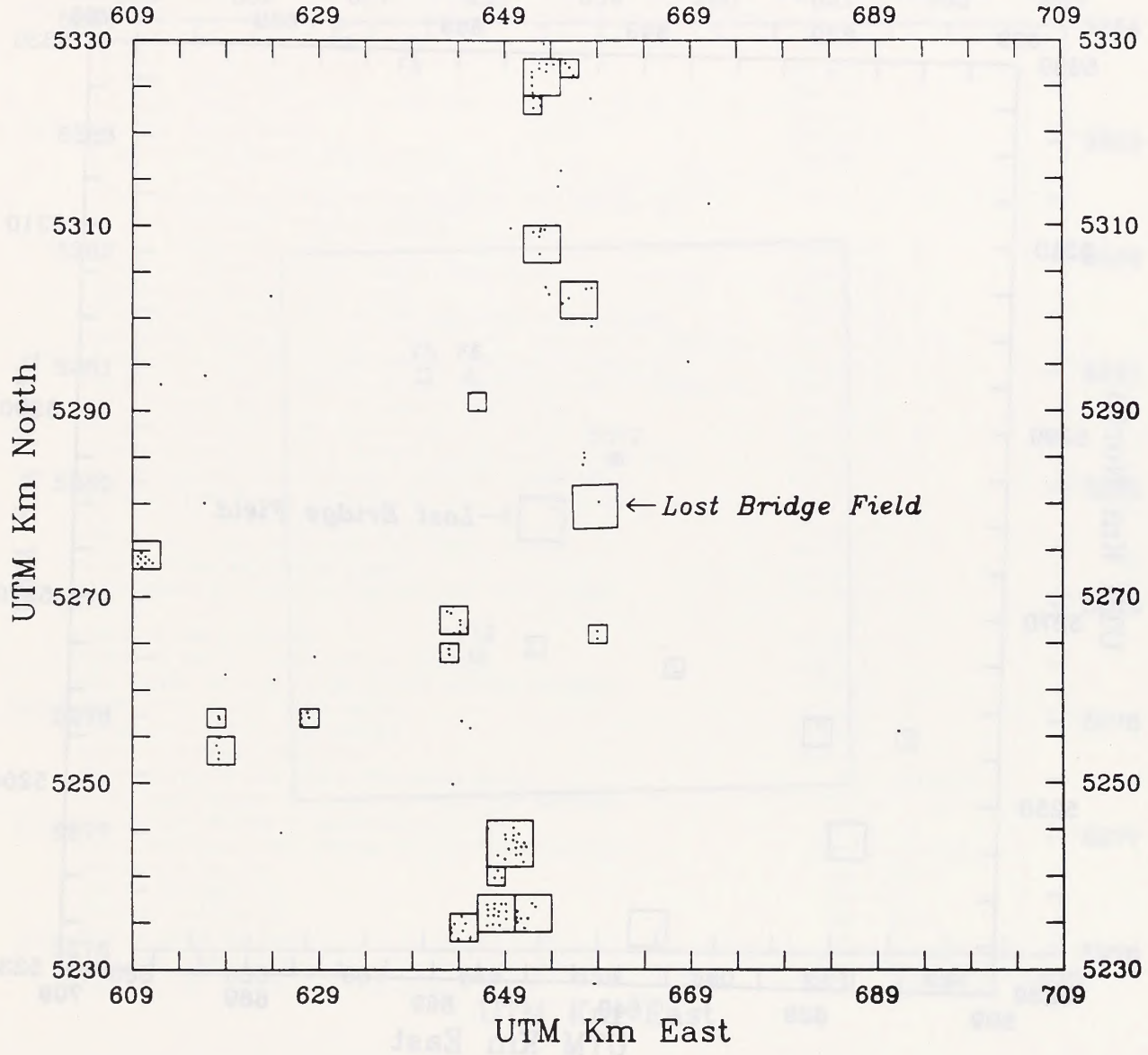


Figure B-26
Lost Bridge Field
Locations of Future SO_2 Point and Area Sources

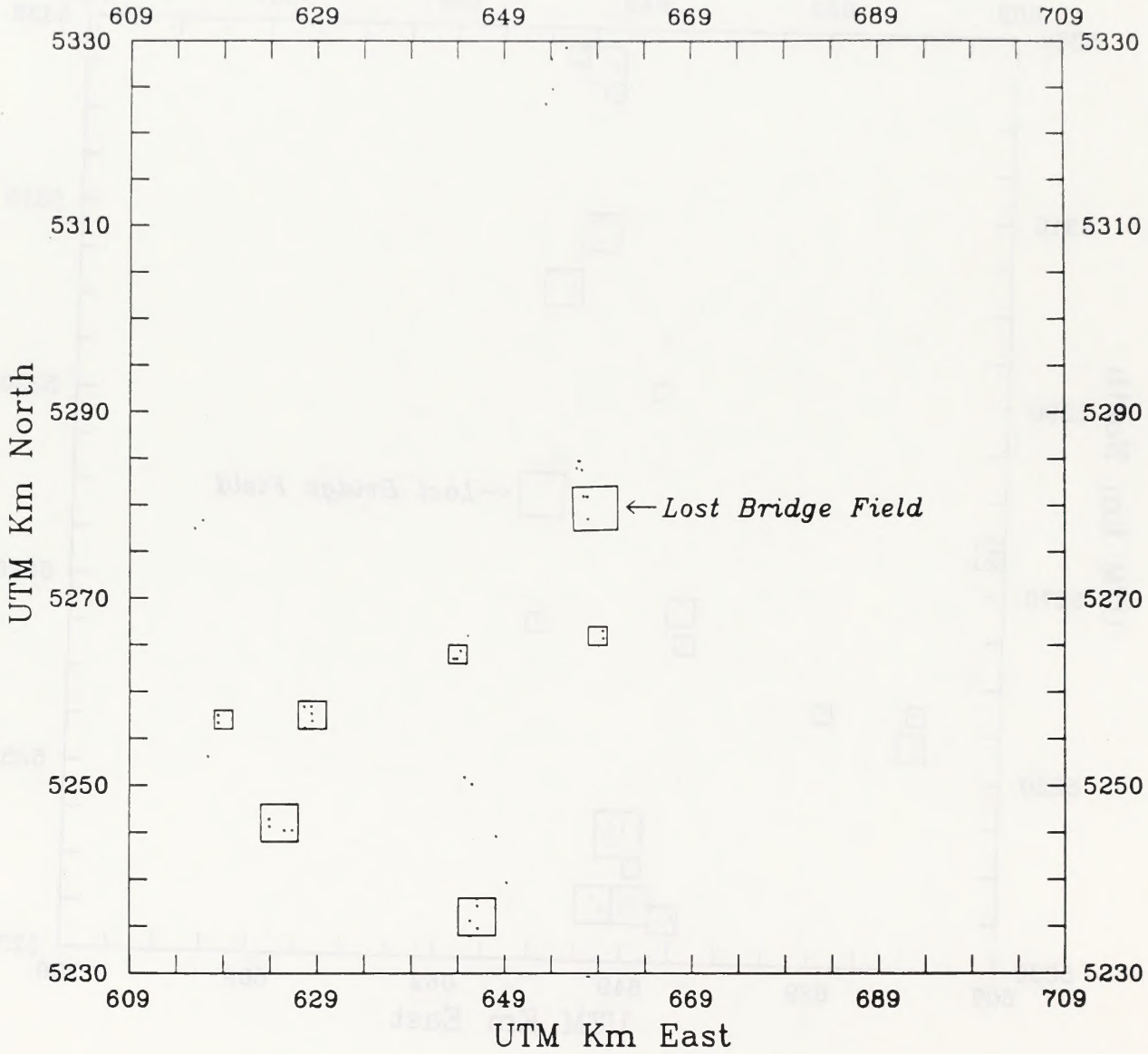


Figure B-27
Lost Bridge Field
Locations of Study-Field SO_2 Sources

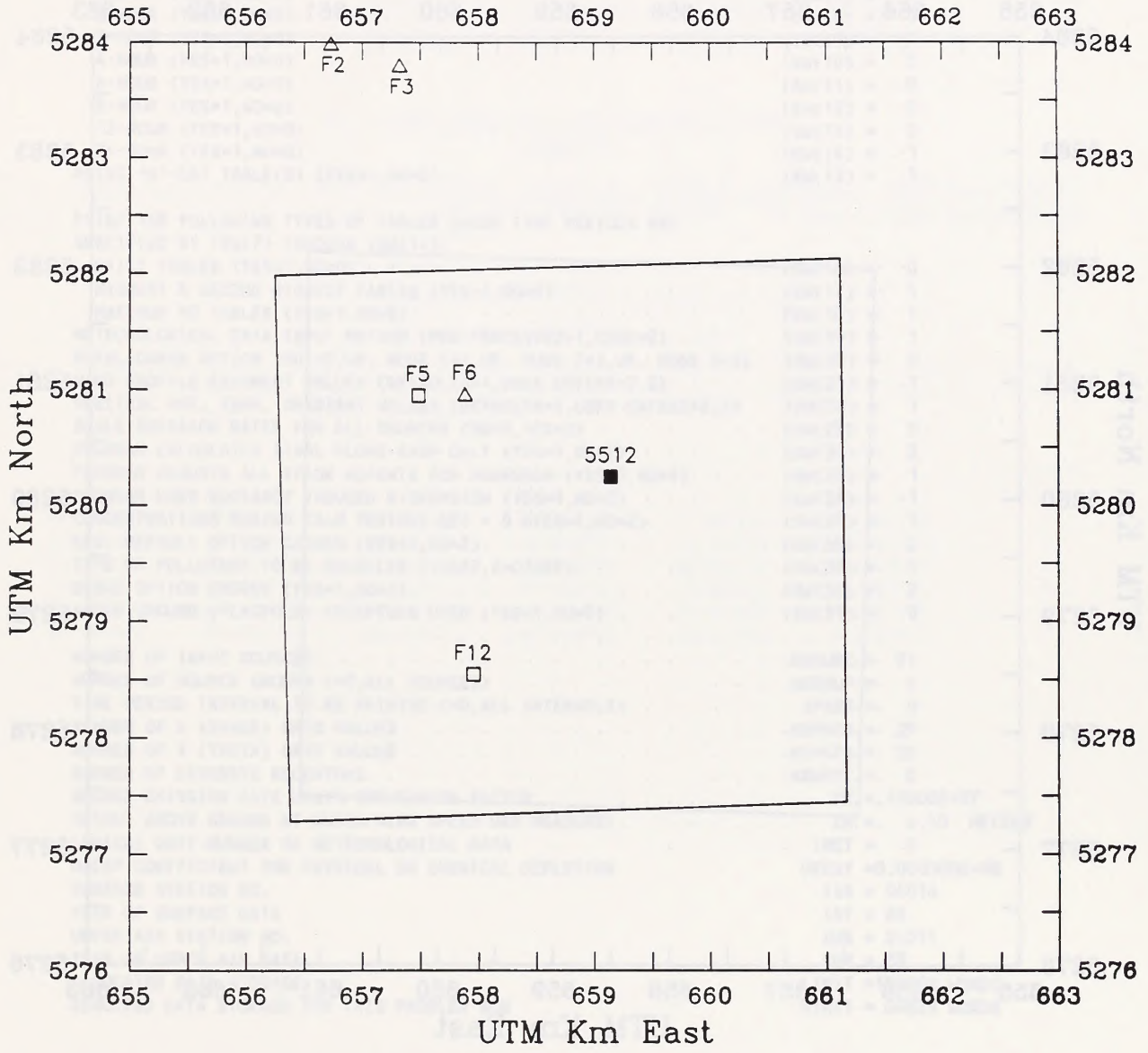
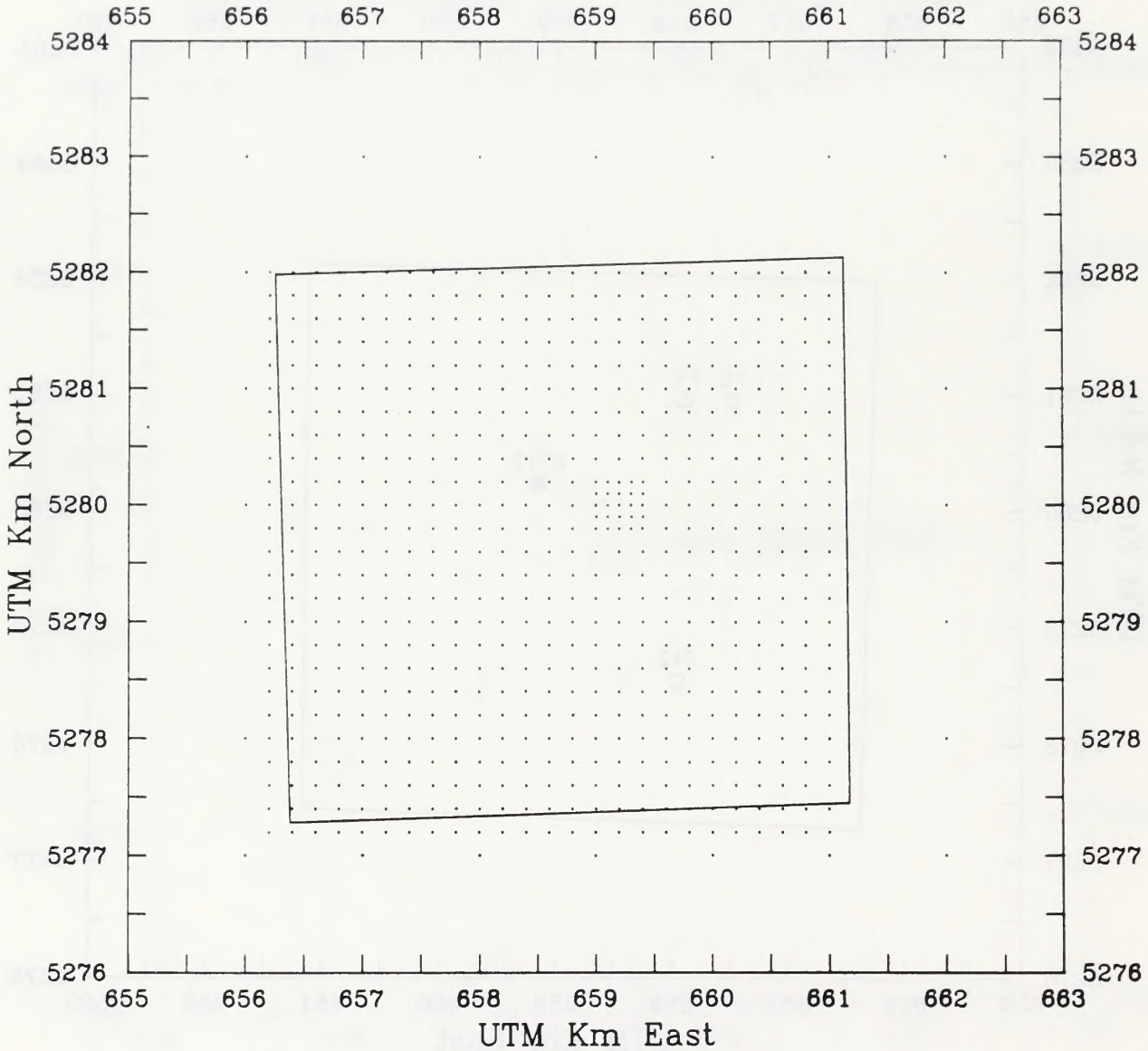


Figure B-28
Lost Bridge Field
ISCST Receptor Locations



CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 91
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 4
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 25
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 25
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 69829 WORDS

*** LOST BRIDGE FIELD SO2 - RECEPTOR GROUP 1 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1   1 1 1 1 1 0
```

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

4, 6, 2, 6,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

1,-79999, 90001,-99999, 40001,-79999, 95001,-98999, 99501,-99999, 1,-99999, 40001,-89999, 95001,-98999, 99501,-99999,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** LOST BRIDGE FIELD SO2 - RECEPTOR GROUP 1 ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

-43800.0, -43600.0, -43400.0, -43200.0, -43000.0, -42800.0, -42600.0, -42400.0, -42200.0, -42000.0,
-41800.0, -41600.0, -41400.0, -41200.0, -41000.0, -40800.0, -40600.0, -40400.0, -40200.0, -40000.0,
-39800.0, -39600.0, -39400.0, -39200.0, -39000.0,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

-22800.0, -22600.0, -22400.0, -22200.0, -22000.0, -21800.0, -21600.0, -21400.0, -21200.0, -21000.0,
-20800.0, -20600.0, -20400.0, -20200.0, -20000.0, -19800.0, -19600.0, -19400.0, -19200.0, -19000.0,
-18800.0, -18600.0, -18400.0, -18200.0, -18000.0,

*** LOST BRIDGE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
1469	0	0	0	0.17300E+00	-42570.0	-15764.0	0.0	6.71	1000.00	0.52	0.30	0.00	0.00	0.00
1971	0	0	0	0.67300E+00	-42396.0	-14988.0	0.0	6.71	1000.00	2.05	0.30	0.00	0.00	0.00
3614	0	0	0	0.90000E-02	-46193.0	2576.0	0.0	6.71	1000.00	5.58	0.30	0.00	0.00	0.00
5512	0	0	0	0.42400E+00	-40815.0	-19988.0	0.0	8.84	1000.00	0.93	0.30	0.00	0.00	0.00
5774	0	0	0	0.10000E-02	-88004.0	-7138.0	0.0	6.71	1000.00	2.67	0.30	0.00	0.00	0.00
6205	0	0	0	0.31200E+00	-54787.0	-44061.0	0.0	6.71	1000.00	2.42	0.30	0.00	0.00	0.00
6323	0	0	0	0.30300E+00	-44934.0	15877.0	0.0	6.71	1000.00	4.60	0.30	0.00	0.00	0.00
22836	0	0	0	0.11000E-01	-45285.0	14212.0	0.0	3.05	1000.00	0.08	0.30	0.00	0.00	0.00
23614	0	0	0	0.70000E-01	-46193.0	2576.0	0.0	0.30	1000.00	44.63	0.30	0.00	0.00	0.00
25512	0	0	0	0.96480E+01	-40845.0	-19967.0	0.0	0.91	1000.00	21.09	0.30	0.00	0.00	0.00
25774	0	0	0	0.10000E-02	-88004.0	-7138.0	0.0	0.30	1000.00	2.67	0.30	0.00	0.00	0.00
26205	0	0	0	0.21580E+01	-54787.0	-44061.0	0.0	6.10	1000.00	16.76	0.30	0.00	0.00	0.00
46959	0	0	0	0.34700E+00	-75029.0	-55351.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
47337	0	0	0	0.10170E+01	-71473.0	-36460.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
47673	0	0	0	0.14960E+01	-31276.0	-4678.0	0.0	6.71	1000.00	5.58	0.30	0.00	0.00	0.00
47823	0	0	0	0.16400E+00	-81066.0	-38332.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48372	0	0	0	0.50300E+00	-83211.0	-6236.0	0.0	6.71	1000.00	3.20	0.30	0.00	0.00	0.00
48567	0	0	0	0.65000E+00	-8708.0	-44412.0	0.0	6.71	1000.00	3.78	0.30	0.00	0.00	0.00
48726	0	0	0	0.10510E+01	-56702.0	-50155.0	0.0	7.62	1000.00	9.30	0.30	0.00	0.00	0.00
48873	0	0	0	0.10000E-02	-46616.0	3373.0	0.0	6.71	1000.00	3.91	0.30	0.00	0.00	0.00
49799	0	0	0	0.10500E+00	-55707.0	-43319.0	0.0	6.71	1000.00	0.81	0.30	0.00	0.00	0.00
50515	0	0	0	0.19000E+00	-83282.0	-19937.0	0.0	6.71	1000.00	5.78	0.30	0.00	0.00	0.00
51313	0	0	0	0.14100E+00	-75813.0	-38863.0	0.0	6.71	1000.00	5.49	0.30	0.00	0.00	0.00
51802	0	0	0	0.16900E+00	-41717.0	23710.0	0.0	6.71	1000.00	6.57	0.30	0.00	0.00	0.00
52019	0	0	0	0.12000E-01	-28943.0	12317.0	0.0	6.71	1000.00	2.92	0.30	0.00	0.00	0.00
66368	0	0	0	0.57100E+01	-51715.0	-14810.0	0.0	12.19	1000.00	17.37	0.30	0.00	0.00	0.00
66959	0	0	0	0.83650E+01	-75029.0	-55351.0	0.0	6.10	1000.00	55.41	0.30	0.00	0.00	0.00
67337	0	0	0	0.13920E+01	-71473.0	-36460.0	0.0	6.10	1000.00	14.42	0.30	0.00	0.00	0.00
67673	0	0	0	0.43220E+01	-31276.0	-4678.0	0.0	9.14	1000.00	16.12	0.30	0.00	0.00	0.00
67823	0	0	0	0.15370E+01	-81066.0	-38332.0	0.0	3.05	1000.00	58.12	0.30	0.00	0.00	0.00
68083	0	0	0	0.20000E-02	-41638.0	-811.0	0.0	0.30	1000.00	0.73	0.30	0.00	0.00	0.00
68567	0	0	0	0.31640E+01	-8708.0	-44412.0	0.0	6.10	1000.00	18.41	0.30	0.00	0.00	0.00
68726	0	0	0	0.97100E+00	-56702.0	-50155.0	0.0	3.05	1000.00	8.60	0.30	0.00	0.00	0.00
68873	0	0	0	0.10000E-02	-46616.0	3373.0	0.0	0.30	1000.00	8.80	0.30	0.00	0.00	0.00
69875	0	0	0	0.88000E-01	-46819.0	29656.0	0.0	3.05	1000.00	0.82	0.30	0.00	0.00	0.00
70515	0	0	0	0.11700E+00	-83282.0	-19937.0	0.0	3.05	1000.00	3.54	0.30	0.00	0.00	0.00
71313	0	0	0	0.13200E+00	-75813.0	-38863.0	0.0	3.05	1000.00	5.14	0.30	0.00	0.00	0.00
71401	0	0	0	0.30000E-02	-50392.0	9692.0	0.0	3.05	1000.00	0.07	0.30	0.00	0.00	0.00
71926	0	0	0	0.26000E-01	-76105.0	2382.0	0.0	6.10	1000.00	0.15	0.30	0.00	0.00	0.00

*** LOST BRIDGE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	AK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
72019	0	0	0	0.48000E-01	-28943.0	12317.0	0.0	0.30	1000.00	11.69	0.30	0.00	0.00	0.00
80301	0	0	0	0.64500E+00	-55301.0	-49120.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80302	0	0	0	0.64500E+00	-54486.0	-49889.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80306	0	0	0	0.64500E+00	-50798.0	-60370.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80310	0	0	0	0.64500E+00	-54702.0	-66072.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80503	0	0	0	0.31100E+00	-82651.0	-46969.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80703	0	0	0	0.19000E+00	-84031.0	-22505.0	0.0	6.71	1000.00	5.78	0.30	0.00	0.00	0.00
81001	0	0	0	0.23410E+01	-54914.0	-33941.0	0.0	6.71	1000.00	6.64	0.30	0.00	0.00	0.00
81105	0	0	0	0.42400E+00	-42532.0	-19041.0	0.0	6.71	1000.00	0.93	0.30	0.00	0.00	0.00
81106	0	0	0	0.40700E+00	-42117.0	-19040.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
81112	0	0	0	0.40700E+00	-42046.0	-21470.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
82001	0	0	0	0.12600E+00	-90441.0	-25037.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
82102	0	0	0	0.42300E+00	-43272.0	-16011.0	0.0	6.71	1000.00	1.29	0.30	0.00	0.00	0.00
82103	0	0	0	0.42300E+00	-42681.0	-16199.0	0.0	6.71	1000.00	1.29	0.30	0.00	0.00	0.00
82104	0	0	0	0.34700E+00	-43107.0	-15209.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
85304	0	0	0	0.34300E+00	-51936.0	-55450.0	0.0	3.05	1000.00	2.71	0.30	0.00	0.00	0.00
85503	0	0	0	0.33700E+00	-82627.0	-46945.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85702	0	0	0	0.11700E+00	-83237.0	-21685.0	0.0	3.05	1000.00	3.54	0.30	0.00	0.00	0.00
85801	0	0	0	0.97000E-01	-44304.0	29263.0	0.0	3.05	1000.00	6.10	0.30	0.00	0.00	0.00
85802	0	0	0	0.88000E-01	-45870.0	28018.0	0.0	3.05	1000.00	0.82	0.30	0.00	0.00	0.00
85901	0	0	0	0.36000E-01	-45776.0	24805.0	0.0	0.30	1000.00	26.72	0.30	0.00	0.00	0.00
85902	0	0	0	0.88000E-01	-46533.0	23173.0	0.0	3.05	1000.00	0.82	0.30	0.00	0.00	0.00
86105	0	0	0	0.96480E+01	-42506.0	-19065.0	0.0	12.19	1000.00	21.09	0.30	0.00	0.00	0.00
86112	0	0	0	0.17400E+01	-42044.0	-21436.0	0.0	9.14	1000.00	3.10	0.30	0.00	0.00	0.00
87101	0	0	0	0.57100E+01	-42914.0	-15203.0	0.0	9.14	1000.00	17.37	0.30	0.00	0.00	0.00
88001	2	0	0	0.24000E-06	-82000.0	-44000.0	0.0	9.34	0.00	2000.00	0.00	0.00	0.00	0.00
88002	2	0	0	0.40900E-06	-73000.0	-44000.0	0.0	11.75	0.00	3000.00	0.00	0.00	0.00	0.00
88003	2	0	0	0.25200E-05	-77000.0	-56000.0	0.0	38.99	0.00	4000.00	0.00	0.00	0.00	0.00
88004	2	0	0	0.18300E-05	-57000.0	-37000.0	0.0	17.36	0.00	2000.00	0.00	0.00	0.00	0.00
88005	2	0	0	0.25300E-05	-42000.0	-35000.0	0.0	13.08	0.00	2000.00	0.00	0.00	0.00	0.00
88006	2	0	0	0.16400E-06	-56000.0	-66000.0	0.0	9.04	0.00	4000.00	0.00	0.00	0.00	0.00
90006	2	0	0	0.15300E-06	-55000.0	-10000.0	0.0	13.63	0.00	2000.00	0.00	0.00	0.00	0.00
90007	2	0	0	0.13200E-06	-91000.0	-27000.0	0.0	11.86	0.00	3000.00	0.00	0.00	0.00	0.00
90013	2	0	0	0.25300E-05	-42000.0	-35000.0	0.0	12.48	0.00	2000.00	0.00	0.00	0.00	0.00
95001	2	0	0	0.60900E-07	-49000.0	24000.0	0.0	12.14	0.00	4000.00	0.00	0.00	0.00	0.00
95002	2	0	0	0.74700E-07	-45000.0	26000.0	0.0	6.69	0.00	2000.00	0.00	0.00	0.00	0.00
95003	2	0	0	0.11100E-05	-49000.0	22000.0	0.0	35.36	0.00	2000.00	0.00	0.00	0.00	0.00
95004	2	0	0	0.71500E-07	-49000.0	6000.0	0.0	9.37	0.00	4000.00	0.00	0.00	0.00	0.00
95005	2	0	0	0.12400E-07	-45000.0	0.0	0.0	8.02	0.00	4000.00	0.00	0.00	0.00	0.00

*** LOST BRIDGE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
95007	2	0	0	0.14300E-07	-91000.0	-27000.0	0.0	9.49	0.00	3000.00	0.00	0.00	0.00	0.00
95008	2	0	0	0.25500E-06	-83000.0	-44000.0	0.0	11.22	0.00	2000.00	0.00	0.00	0.00	0.00
95009	2	0	0	0.15000E-06	-83000.0	-48000.0	0.0	8.23	0.00	3000.00	0.00	0.00	0.00	0.00
95010	2	0	0	0.91900E-06	-73000.0	-44000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95011	2	0	0	0.23400E-05	-58000.0	-34000.0	0.0	11.94	0.00	3000.00	0.00	0.00	0.00	0.00
95012	2	0	0	0.34800E-05	-58000.0	-37000.0	0.0	35.38	0.00	2000.00	0.00	0.00	0.00	0.00
95014	2	0	0	0.48700E-06	-53000.0	-59000.0	0.0	10.38	0.00	5000.00	0.00	0.00	0.00	0.00
95015	2	0	0	0.47900E-06	-53000.0	-61000.0	0.0	10.28	0.00	2000.00	0.00	0.00	0.00	0.00
95016	2	0	0	0.29700E-06	-57000.0	-67000.0	0.0	9.79	0.00	3000.00	0.00	0.00	0.00	0.00
95017	2	0	0	0.65000E-06	-54000.0	-66000.0	0.0	10.51	0.00	4000.00	0.00	0.00	0.00	0.00
95018	2	0	0	0.49200E-06	-50000.0	-66000.0	0.0	9.64	0.00	4000.00	0.00	0.00	0.00	0.00
99502	0	0	0	0.53800E+02	-56200.0	-60300.0	0.0	59.50	870.00	10.00	1.80	0.00	0.00	0.00
99503	0	0	0	0.19000E+01	-71100.0	-4568.0	0.0	13.90	440.00	19.50	0.40	0.00	0.00	0.00

Rough Rider Field

Figure B-29
Rough Rider Field
Locations of Existing SO_2 Point and Area Sources

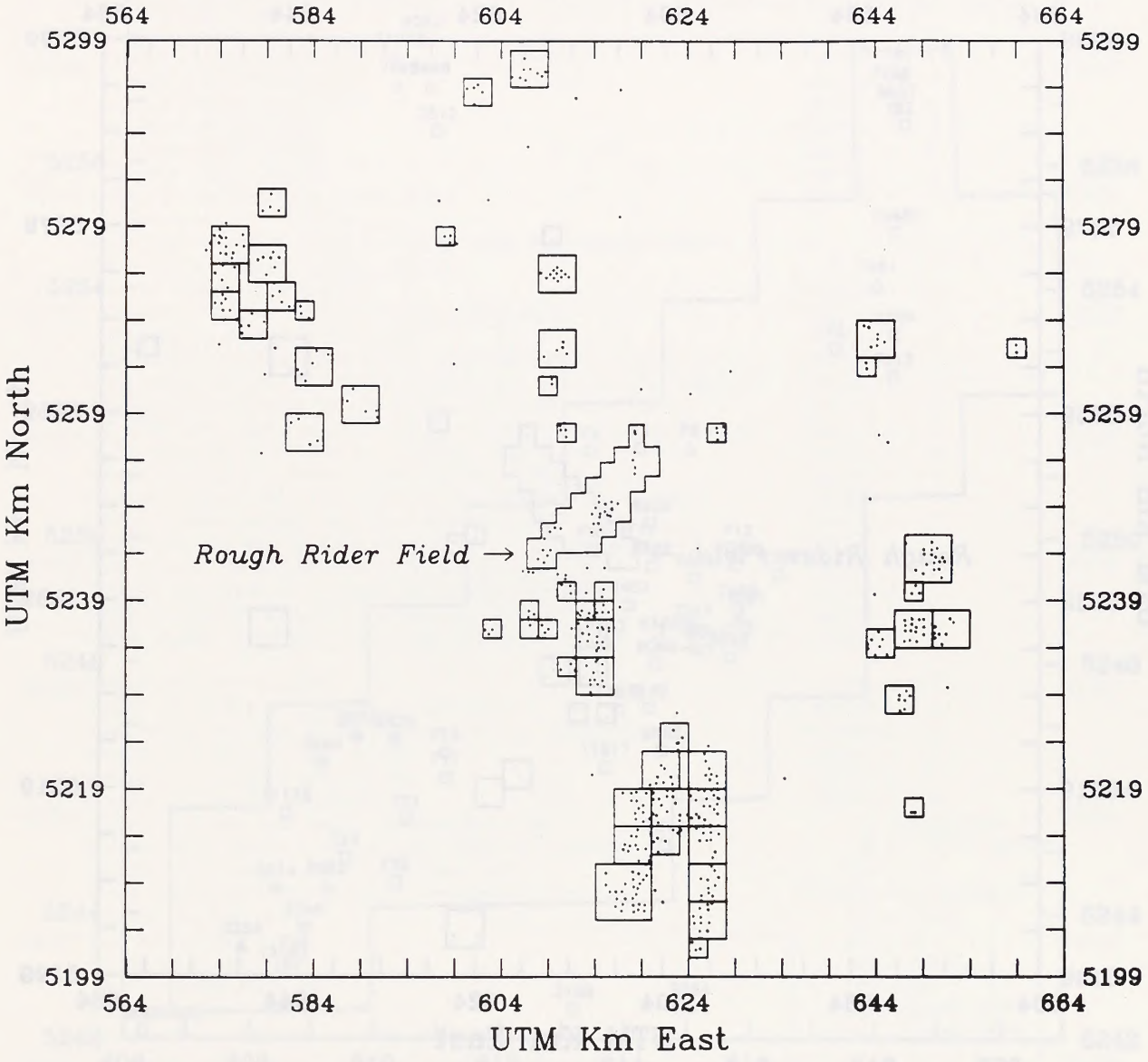


Figure B–30
Rough Rider Field
Locations of Future SO_2 Point and Area Sources

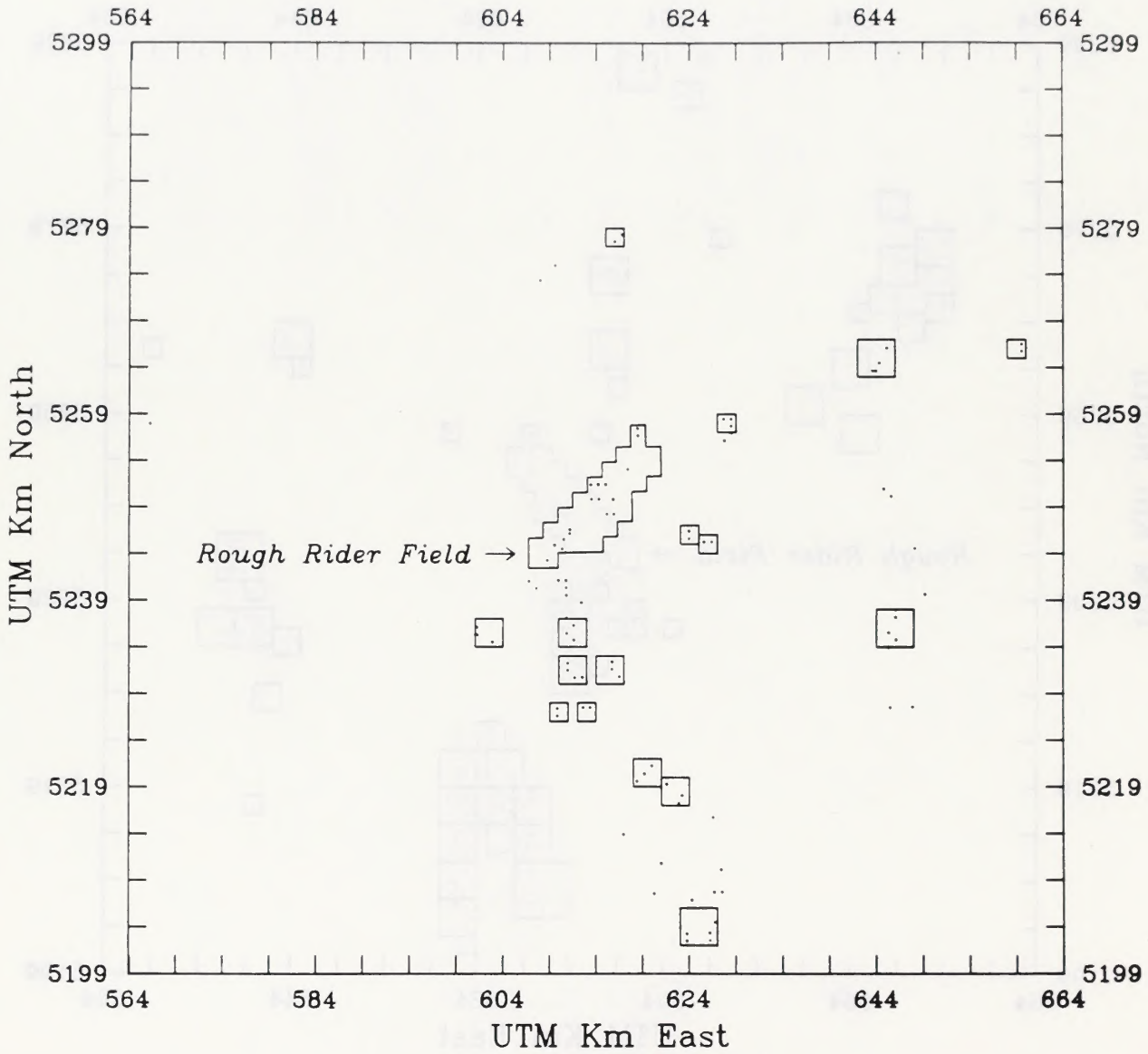


Figure B-31
Rough Rider Field
Locations of Study-Field SO_2 Sources

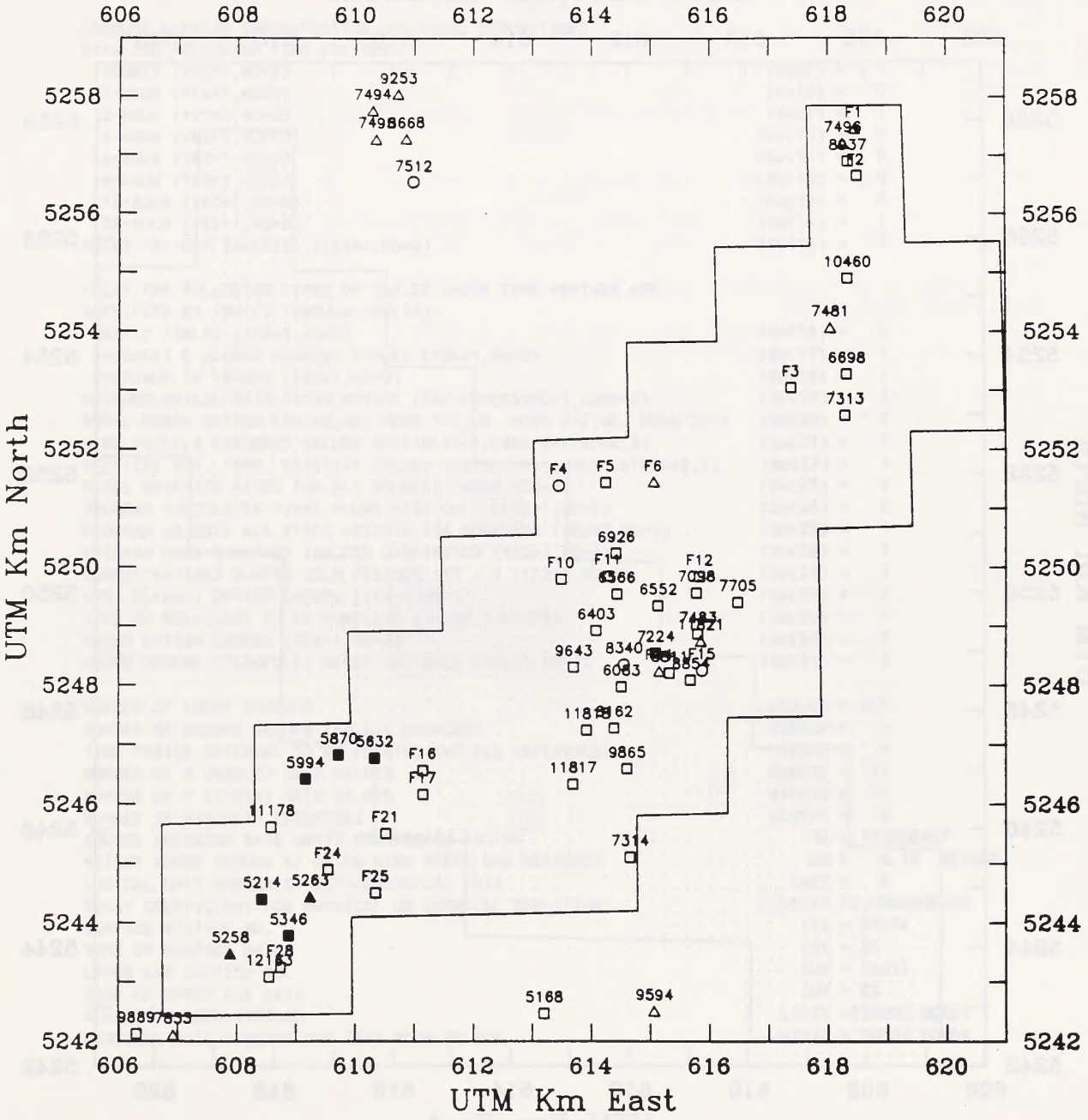
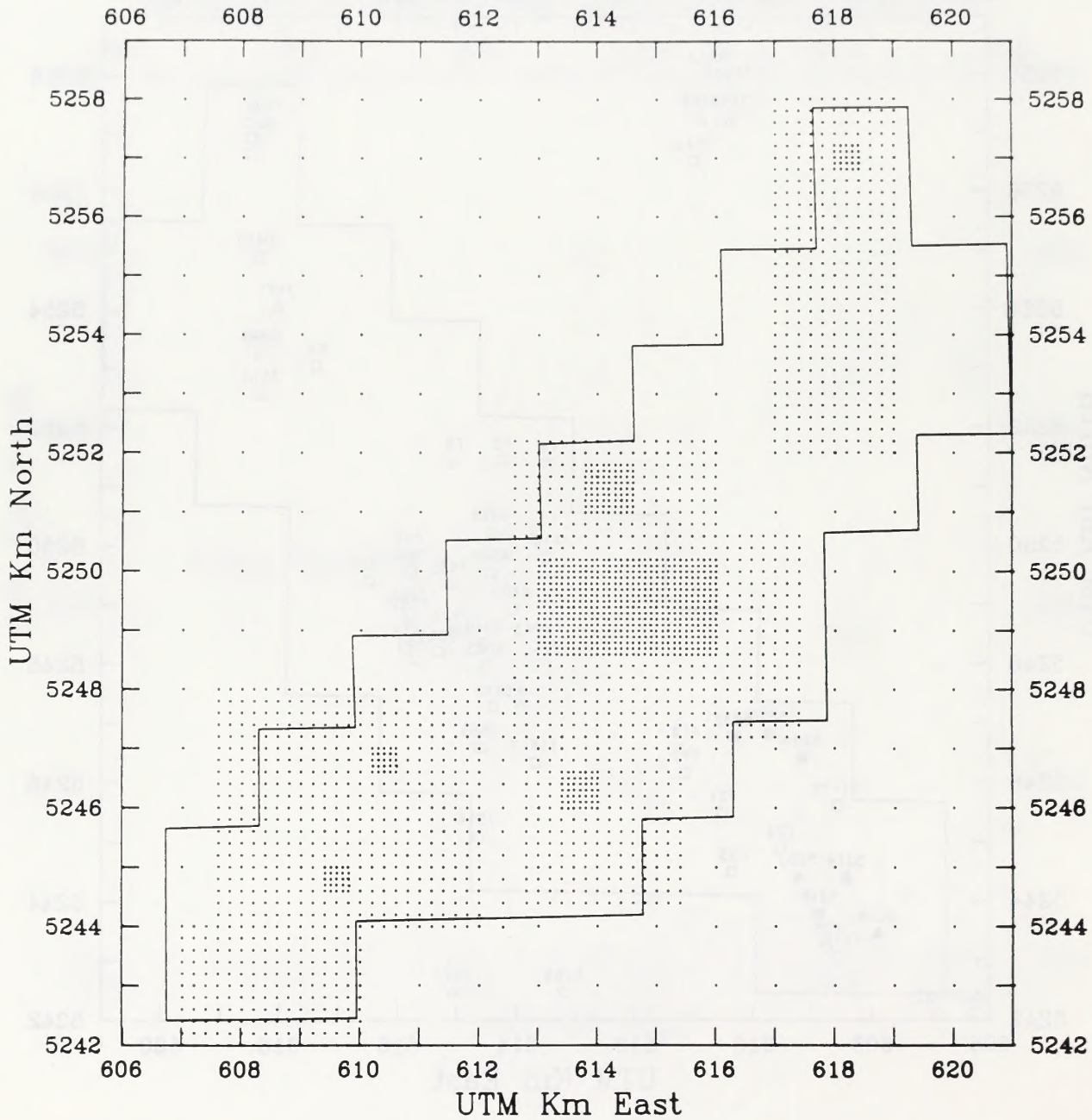


Figure B-32
Rough Rider Field
ISCST Receptor Locations



*** ROUGH RIDER FIELD SO2 - RECEPTOR GROUP 1 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 261
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 4
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 11
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 31
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 99867 WORDS

```
***          ROUGH RIDER FIELD SO2 - RECEPTOR GROUP 1          ***

              *** METEOROLOGICAL DAYS TO BE PROCESSED ***
                              (IF=1)

1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 0

      *** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
                              (NSOGRP)

   4,   6,   2,   6,

              *** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
                              (IDSOR)

    1,-79999, 90001,-99999, 40001,-79999, 95001,-98999, 99501,-99999,     1,-99999, 40001,-89999,
 95001,-98999, 99501,-99999,

      *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                            (METERS/SEC)

                   1.54,   3.09,   5.14,   8.23,  10.80,

                    *** WIND PROFILE EXPONENTS ***
```

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** ROUGH RIDER FIELD SO2 - RECEPTOR GROUP 1 ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

17000.0, 17200.0, 17400.0, 17600.0, 17800.0, 18000.0, 18200.0, 18400.0, 18600.0, 18800.0,
19000.0,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

52000.0, 52200.0, 52400.0, 52600.0, 52800.0, 53000.0, 53200.0, 53400.0, 53600.0, 53800.0,
54000.0, 54200.0, 54400.0, 54600.0, 54800.0, 55000.0, 55200.0, 55400.0, 55600.0, 55800.0,
56000.0, 56200.0, 56400.0, 56600.0, 56800.0, 57000.0, 57200.0, 57400.0, 57600.0, 57800.0,
58000.0,

*** ROUGH RIDER FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
5214	0	0	0	0.49600E+00	8216.0	44224.0	0.0	10.06	1000.00	8.68	0.30	0.00	0.00	0.00
5258	0	0	0	0.26800E+00	7863.0	43563.0	0.0	9.75	1000.00	4.40	0.30	0.00	0.00	0.00
5263	0	0	0	0.26400E+00	9248.0	44396.0	0.0	10.06	1000.00	4.34	0.30	0.00	0.00	0.00
5346	0	0	0	0.35200E+00	8893.0	43758.0	0.0	8.53	1000.00	8.68	0.30	0.00	0.00	0.00
5632	0	0	0	0.62300E+00	10316.0	46736.0	0.0	4.57	1000.00	7.30	0.30	0.00	0.00	0.00
5774	0	0	0	0.10000E-02	11996.0	92862.0	0.0	6.71	1000.00	2.67	0.30	0.00	0.00	0.00
5870	0	0	0	0.71500E+00	9689.0	46843.0	0.0	10.06	1000.00	8.74	0.30	0.00	0.00	0.00
5994	0	0	0	0.39600E+00	9177.0	46397.0	0.0	9.75	1000.00	8.68	0.30	0.00	0.00	0.00
6072	0	0	0	0.13500E+00	-27183.0	77214.0	0.0	6.71	1000.00	4.93	0.30	0.00	0.00	0.00
6135	0	0	0	0.13400E+00	-27521.0	76411.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
6205	0	0	0	0.31200E+00	45213.0	55939.0	0.0	6.71	1000.00	2.42	0.30	0.00	0.00	0.00
25214	0	0	0	0.80000E-01	8225.0	44148.0	0.0	6.10	1000.00	1.40	0.30	0.00	0.00	0.00
25346	0	0	0	0.44000E-01	8902.0	43728.0	0.0	0.30	1000.00	1.08	0.30	0.00	0.00	0.00
25632	0	0	0	0.95000E-01	10418.0	46881.0	0.0	0.30	1000.00	1.11	0.30	0.00	0.00	0.00
25774	0	0	0	0.10000E-02	11996.0	92862.0	0.0	0.30	1000.00	2.67	0.30	0.00	0.00	0.00
25870	0	0	0	0.69000E-01	9697.0	46889.0	0.0	0.30	1000.00	0.84	0.30	0.00	0.00	0.00
25994	0	0	0	0.54000E-01	9127.0	46491.0	0.0	9.75	1000.00	1.18	0.30	0.00	0.00	0.00
26205	0	0	0	0.21580E+01	45213.0	55939.0	0.0	6.10	1000.00	16.76	0.30	0.00	0.00	0.00
45168	0	0	0	0.19500E+00	13191.0	42464.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
46083	0	0	0	0.50000E+00	14491.0	47934.0	0.0	9.75	1000.00	7.89	0.30	0.00	0.00	0.00
46310	0	0	0	0.84000E-01	10913.0	41733.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
46403	0	0	0	0.54000E+00	14081.0	48963.0	0.0	8.53	1000.00	8.68	0.30	0.00	0.00	0.00
46552	0	0	0	0.40100E+00	15053.0	49393.0	0.0	10.06	1000.00	7.43	0.30	0.00	0.00	0.00
46566	0	0	0	0.53600E+00	14460.0	49573.0	0.0	4.27	1000.00	8.68	0.30	0.00	0.00	0.00
46602	0	0	0	0.96000E-01	20388.0	8153.0	0.0	6.71	1000.00	2.96	0.30	0.00	0.00	0.00
46612	0	0	0	0.61000E-01	-25434.0	79332.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
46698	0	0	0	0.24100E+00	18343.0	53272.0	0.0	8.23	1000.00	8.68	0.30	0.00	0.00	0.00
46926	0	0	0	0.39000E-01	14460.0	49573.0	0.0	4.27	1000.00	8.68	0.30	0.00	0.00	0.00
46959	0	0	0	0.34700E+00	24971.0	44649.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
47012	0	0	0	0.57000E-01	21191.0	6938.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47070	0	0	0	0.34700E+00	13625.0	28953.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
47206	0	0	0	0.14300E+00	-21693.0	54744.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47224	0	0	0	0.15900E+00	15083.0	48593.0	0.0	7.62	1000.00	2.73	0.30	0.00	0.00	0.00
47313	0	0	0	0.31700E+00	18343.0	53272.0	0.0	8.23	1000.00	8.68	0.30	0.00	0.00	0.00
47314	0	0	0	0.45700E+00	14612.0	45126.0	0.0	9.14	1000.00	14.72	0.30	0.00	0.00	0.00
47337	0	0	0	0.10170E+01	28527.0	63540.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
47423	0	0	0	0.19900E+00	-26133.0	66384.0	0.0	6.71	1000.00	4.91	0.30	0.00	0.00	0.00
47465	0	0	0	0.38000E-01	23158.0	14596.0	0.0	6.71	1000.00	1.23	0.30	0.00	0.00	0.00
47478	0	0	0	0.60000E-02	-2686.0	81745.0	0.0	6.71	1000.00	2.61	0.30	0.00	0.00	0.00

*** ROUGH RIDER FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
47481	0	0	0	0.21100E+00	17979.0	54034.0	0.0	10.06	1000.00	3.10	0.30	0.00	0.00	0.00
47483	0	0	0	0.16600E+00	15806.0	48914.0	0.0	7.92	1000.00	2.73	0.30	0.00	0.00	0.00
47496	0	0	0	0.51100E+00	18245.0	57157.0	0.0	9.45	1000.00	10.54	0.30	0.00	0.00	0.00
47511	0	0	0	0.14000E-01	-749.0	77173.0	0.0	6.71	1000.00	6.09	0.30	0.00	0.00	0.00
47675	0	0	0	0.86000E-01	26078.0	23573.0	0.0	6.71	1000.00	0.95	0.30	0.00	0.00	0.00
47705	0	0	0	0.16500E+00	16480.0	49462.0	0.0	10.06	1000.00	2.72	0.30	0.00	0.00	0.00
47823	0	0	0	0.16400E+00	18934.0	61668.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
47833	0	0	0	0.52300E+00	6910.0	42102.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48162	0	0	0	0.72000E-01	14335.0	47298.0	0.0	9.14	1000.00	1.24	0.30	0.00	0.00	0.00
48202	0	0	0	0.45700E+00	51591.0	29807.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
48238	0	0	0	0.76000E-01	-13021.0	60483.0	0.0	6.71	1000.00	1.88	0.30	0.00	0.00	0.00
48372	0	0	0	0.50300E+00	16789.0	93764.0	0.0	6.71	1000.00	3.20	0.30	0.00	0.00	0.00
48404	0	0	0	0.13550E+01	-21294.0	63169.0	0.0	6.71	1000.00	49.61	0.30	0.00	0.00	0.00
48472	0	0	0	0.52300E+00	7381.0	41971.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48542	0	0	0	0.10000E-02	9970.0	40183.0	0.0	6.71	1000.00	0.07	0.30	0.00	0.00	0.00
48580	0	0	0	0.20300E+00	-20172.0	65962.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
48717	0	0	0	0.30000E-02	2546.0	81828.0	0.0	6.71	1000.00	2.80	0.30	0.00	0.00	0.00
48726	0	0	0	0.10510E+01	43298.0	49845.0	0.0	7.62	1000.00	9.30	0.30	0.00	0.00	0.00
48737	0	0	0	0.11100E+00	-805.0	70151.0	0.0	8.53	1000.00	3.54	0.30	0.00	0.00	0.00
48811	0	0	0	0.13800E+00	15334.0	48233.0	0.0	7.92	1000.00	2.56	0.30	0.00	0.00	0.00
48854	0	0	0	0.16200E+00	15643.0	48101.0	0.0	8.23	1000.00	2.65	0.30	0.00	0.00	0.00
48937	0	0	0	0.47100E+00	18186.0	57034.0	0.0	7.92	1000.00	8.74	0.30	0.00	0.00	0.00
49007	0	0	0	0.97600E+00	10088.0	41837.0	0.0	6.71	1000.00	15.18	0.30	0.00	0.00	0.00
49127	0	0	0	0.11600E+00	11383.0	41326.0	0.0	10.67	1000.00	9.30	0.30	0.00	0.00	0.00
49426	0	0	0	0.84000E-01	9964.0	39461.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49594	0	0	0	0.69000E-01	15056.0	42501.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
49641	0	0	0	0.66100E+00	16660.0	38360.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49643	0	0	0	0.52000E-01	14081.0	48963.0	0.0	8.53	1000.00	8.68	0.30	0.00	0.00	0.00
49799	0	0	0	0.10500E+00	44293.0	56681.0	0.0	6.71	1000.00	0.81	0.30	0.00	0.00	0.00
49862	0	0	0	0.35600E+00	22762.0	27079.0	0.0	6.71	1000.00	8.10	0.30	0.00	0.00	0.00
49865	0	0	0	0.76000E-01	14335.0	47298.0	0.0	9.14	1000.00	1.24	0.30	0.00	0.00	0.00
49889	0	0	0	0.52300E+00	6291.0	42120.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50460	0	0	0	0.45300E+00	18325.0	54933.0	0.0	8.23	1000.00	8.81	0.30	0.00	0.00	0.00
50515	0	0	0	0.19000E+00	16718.0	80063.0	0.0	6.71	1000.00	5.78	0.30	0.00	0.00	0.00
50951	0	0	0	0.20000E-02	-1114.0	64348.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
51178	0	0	0	0.52000E+00	8447.0	45969.0	0.0	9.14	1000.00	9.52	0.30	0.00	0.00	0.00
51313	0	0	0	0.14100E+00	24187.0	61137.0	0.0	6.71	1000.00	5.49	0.30	0.00	0.00	0.00
51817	0	0	0	0.42600E+00	13651.0	46315.0	0.0	8.23	1000.00	4.96	0.30	0.00	0.00	0.00
51818	0	0	0	0.76000E-01	14335.0	47298.0	0.0	9.14	1000.00	1.24	0.30	0.00	0.00	0.00

*** ROUGH RIDER FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
51821	0	0	0	0.40700E+00	15852.0	48799.0	0.0	8.23	1000.00	3.03	0.30	0.00	0.00	0.00
52048	0	0	0	0.12000E+00	11986.0	38975.0	0.0	6.71	1000.00	13.34	0.30	0.00	0.00	0.00
52163	0	0	0	0.39800E+00	8527.0	43045.0	0.0	7.92	1000.00	8.86	0.30	0.00	0.00	0.00
65168	0	0	0	0.89000E-01	13191.0	42464.0	0.0	3.05	1000.00	1.72	0.30	0.00	0.00	0.00
66083	0	0	0	0.49000E-01	14544.0	47952.0	0.0	0.30	1000.00	0.78	0.30	0.00	0.00	0.00
66310	0	0	0	0.18000E-01	10913.0	41733.0	0.0	3.05	1000.00	1.96	0.30	0.00	0.00	0.00
66403	0	0	0	0.11200E+00	14020.0	48859.0	0.0	0.30	1000.00	1.81	0.30	0.00	0.00	0.00
66552	0	0	0	0.58000E-01	15125.0	49438.0	0.0	0.30	1000.00	11.62	0.30	0.00	0.00	0.00
66566	0	0	0	0.13700E+00	14495.0	49552.0	0.0	0.30	1000.00	2.22	0.30	0.00	0.00	0.00
66602	0	0	0	0.72500E+00	20388.0	8153.0	0.0	0.30	1000.00	22.33	0.30	0.00	0.00	0.00
66698	0	0	0	0.35000E-01	18344.0	53218.0	0.0	0.30	1000.00	1.13	0.30	0.00	0.00	0.00
66926	0	0	0	0.10000E-01	14495.0	49552.0	0.0	0.30	1000.00	2.22	0.30	0.00	0.00	0.00
66959	0	0	0	0.83650E+01	24971.0	44649.0	0.0	6.10	1000.00	55.41	0.30	0.00	0.00	0.00
67012	0	0	0	0.26000E+00	21191.0	6938.0	0.0	3.05	1000.00	16.98	0.30	0.00	0.00	0.00
67070	0	0	0	0.42000E-01	13625.0	28953.0	0.0	3.05	1000.00	0.75	0.30	0.00	0.00	0.00
67224	0	0	0	0.43000E-01	15113.0	48544.0	0.0	0.30	1000.00	0.75	0.30	0.00	0.00	0.00
67313	0	0	0	0.37000E-01	18344.0	53218.0	0.0	0.30	1000.00	1.13	0.30	0.00	0.00	0.00
67314	0	0	0	0.48000E-01	14628.0	45166.0	0.0	1.22	1000.00	1.52	0.30	0.00	0.00	0.00
67337	0	0	0	0.13920E+01	28527.0	63540.0	0.0	6.10	1000.00	14.42	0.30	0.00	0.00	0.00
67465	0	0	0	0.10000E-02	23158.0	14596.0	0.0	3.05	1000.00	0.04	0.30	0.00	0.00	0.00
67483	0	0	0	0.20000E-01	15798.0	48843.0	0.0	11.28	1000.00	0.33	0.30	0.00	0.00	0.00
67705	0	0	0	0.80000E-02	16492.0	49377.0	0.0	0.30	1000.00	0.14	0.30	0.00	0.00	0.00
67823	0	0	0	0.15370E+01	18934.0	61668.0	0.0	3.05	1000.00	58.12	0.30	0.00	0.00	0.00
68075	0	0	0	0.17000E-01	13697.0	20486.0	0.0	3.05	1000.00	1.43	0.30	0.00	0.00	0.00
68162	0	0	0	0.44000E-01	14348.0	47252.0	0.0	0.30	1000.00	2.66	0.30	0.00	0.00	0.00
68202	0	0	0	0.17020E+01	51591.0	29807.0	0.0	0.30	1000.00	13.84	0.30	0.00	0.00	0.00
68340	0	0	0	0.17400E+01	14623.0	48185.0	0.0	12.19	1000.00	3.10	0.30	0.00	0.00	0.00
68717	0	0	0	0.18000E-01	2546.0	81828.0	0.0	0.30	1000.00	17.91	0.30	0.00	0.00	0.00
68726	0	0	0	0.97100E+00	43298.0	49845.0	0.0	3.05	1000.00	8.60	0.30	0.00	0.00	0.00
68811	0	0	0	0.24000E-01	15304.0	48254.0	0.0	0.30	1000.00	0.45	0.30	0.00	0.00	0.00
68854	0	0	0	0.10000E-01	15644.0	48138.0	0.0	0.30	1000.00	0.17	0.30	0.00	0.00	0.00
68937	0	0	0	0.37000E-01	18180.0	57001.0	0.0	0.30	1000.00	0.69	0.30	0.00	0.00	0.00
69643	0	0	0	0.11000E-01	14020.0	48859.0	0.0	0.30	1000.00	1.81	0.30	0.00	0.00	0.00
69865	0	0	0	0.80000E-01	14348.0	47252.0	0.0	0.30	1000.00	2.66	0.30	0.00	0.00	0.00
69889	0	0	0	0.48000E-01	6291.0	42120.0	0.0	3.05	1000.00	0.57	0.30	0.00	0.00	0.00
70460	0	0	0	0.58000E-01	18350.0	54895.0	0.0	0.30	1000.00	1.13	0.30	0.00	0.00	0.00
70515	0	0	0	0.11700E+00	16718.0	80063.0	0.0	3.05	1000.00	3.54	0.30	0.00	0.00	0.00
70816	0	0	0	0.13300E+00	6848.0	87593.0	0.0	0.30	1000.00	5.42	0.30	0.00	0.00	0.00
71178	0	0	0	0.12800E+00	8463.0	46015.0	0.0	6.10	1000.00	2.34	0.30	0.00	0.00	0.00

*** ROUGH RIDER FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	AWK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
71313	0	0	0	0.13200E+00	24187.0	61137.0	0.0	3.05	1000.00	5.14	0.30	0.00	0.00	0.00
71817	0	0	0	0.31670E+01	13701.0	46310.0	0.0	0.30	1000.00	36.93	0.30	0.00	0.00	0.00
71818	0	0	0	0.35000E-01	14348.0	47252.0	0.0	0.30	1000.00	2.66	0.30	0.00	0.00	0.00
72048	0	0	0	0.13800E+00	11986.0	38975.0	0.0	3.05	1000.00	15.35	0.30	0.00	0.00	0.00
72163	0	0	0	0.52740E+01	8562.0	43060.0	0.0	6.10	1000.00	117.51	0.30	0.00	0.00	0.00
80101	0	0	0	0.10000E-02	27406.0	10124.0	0.0	6.71	1000.00	3.13	0.30	0.00	0.00	0.00
80102	0	0	0	0.49000E-01	27465.0	7714.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80103	0	0	0	0.10000E-02	26661.0	7697.0	0.0	6.71	1000.00	3.13	0.30	0.00	0.00	0.00
80104	0	0	0	0.49000E-01	24246.0	6832.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80216	0	0	0	0.24100E+00	16868.0	13908.0	0.0	6.71	1000.00	7.76	0.30	0.00	0.00	0.00
80301	0	0	0	0.64500E+00	44699.0	50880.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80302	0	0	0	0.64500E+00	45514.0	50111.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80306	0	0	0	0.64500E+00	49202.0	39630.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80310	0	0	0	0.64500E+00	45298.0	33928.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80312	0	0	0	0.64500E+00	45481.0	27483.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80314	0	0	0	0.64500E+00	47879.0	27547.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80402	0	0	0	0.29000E+00	10803.0	37115.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
80501	0	0	0	0.31100E+00	18446.0	57454.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80502	0	0	0	0.31100E+00	18484.0	56655.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80503	0	0	0	0.31100E+00	17349.0	53031.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80505	0	0	0	0.40700E+00	14234.0	51425.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
80506	0	0	0	0.40700E+00	15042.0	51444.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
80510	0	0	0	0.40700E+00	13494.0	49797.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
80511	0	0	0	0.40700E+00	14294.0	49856.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
80512	0	0	0	0.40700E+00	15839.0	49844.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
80514	0	0	0	0.31100E+00	15134.0	48239.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80516	0	0	0	0.31100E+00	11136.0	46575.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80517	0	0	0	0.31100E+00	11146.0	46162.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80521	0	0	0	0.31100E+00	10483.0	45501.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80524	0	0	0	0.31100E+00	9517.0	44907.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80525	0	0	0	0.31100E+00	10349.0	44495.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80528	0	0	0	0.31100E+00	8708.0	43239.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
81401	0	0	0	0.23100E+00	26476.0	15738.0	0.0	6.71	1000.00	6.70	0.30	0.00	0.00	0.00
81501	0	0	0	0.52000E-01	20960.0	10779.0	0.0	6.71	1000.00	2.78	0.30	0.00	0.00	0.00
81502	0	0	0	0.52000E-01	20197.0	7545.0	0.0	6.71	1000.00	2.78	0.30	0.00	0.00	0.00
81602	0	0	0	0.71600E+00	9933.0	41102.0	0.0	6.71	1000.00	11.13	0.30	0.00	0.00	0.00
81604	0	0	0	0.71600E+00	10752.0	41119.0	0.0	6.71	1000.00	11.13	0.30	0.00	0.00	0.00
81605	0	0	0	0.71600E+00	10766.0	40315.0	0.0	6.71	1000.00	11.13	0.30	0.00	0.00	0.00
81606	0	0	0	0.71600E+00	10777.0	39516.0	0.0	6.71	1000.00	11.13	0.30	0.00	0.00	0.00

*** ROUGH RIDER FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
81702	0	0	0	0.49200E+00	6756.0	41037.0	0.0	6.71	1000.00	5.83	0.30	0.00	0.00	0.00
81704	0	0	0	0.49200E+00	7596.0	40245.0	0.0	6.71	1000.00	5.83	0.30	0.00	0.00	0.00
81801	0	0	0	0.47800E+00	12372.0	38751.0	0.0	6.71	1000.00	8.97	0.30	0.00	0.00	0.00
81904	0	0	0	0.62800E+00	28465.0	56902.0	0.0	6.71	1000.00	9.18	0.30	0.00	0.00	0.00
81905	0	0	0	0.62800E+00	27689.0	56105.0	0.0	6.71	1000.00	9.18	0.30	0.00	0.00	0.00
82001	0	0	0	0.12600E+00	9559.0	74963.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
82002	0	0	0	0.12600E+00	7990.0	73328.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
85304	0	0	0	0.34300E+00	48064.0	44550.0	0.0	3.05	1000.00	2.71	0.30	0.00	0.00	0.00
85402	0	0	0	0.51000E-01	10823.0	37085.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
85502	0	0	0	0.33700E+00	18448.0	56645.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85503	0	0	0	0.33700E+00	17373.0	53055.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85504	0	0	0	0.17400E+01	13435.0	51390.0	0.0	9.14	1000.00	3.10	0.30	0.00	0.00	0.00
85505	0	0	0	0.17400E+01	14242.0	51459.0	0.0	9.14	1000.00	3.10	0.30	0.00	0.00	0.00
85510	0	0	0	0.17400E+01	13460.0	49809.0	0.0	9.14	1000.00	3.10	0.30	0.00	0.00	0.00
85511	0	0	0	0.17400E+01	14258.0	49856.0	0.0	9.14	1000.00	3.10	0.30	0.00	0.00	0.00
85512	0	0	0	0.17400E+01	15803.0	49844.0	0.0	9.14	1000.00	3.10	0.30	0.00	0.00	0.00
85515	0	0	0	0.33700E+00	15861.0	48254.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85516	0	0	0	0.33700E+00	11118.0	46543.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85517	0	0	0	0.33700E+00	11112.0	46152.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85521	0	0	0	0.33700E+00	10517.0	45499.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85524	0	0	0	0.33700E+00	9535.0	44877.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85525	0	0	0	0.33700E+00	10315.0	44503.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85528	0	0	0	0.33700E+00	8742.0	43247.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
86602	0	0	0	0.21700E+00	9965.0	41090.0	0.0	3.05	1000.00	4.06	0.30	0.00	0.00	0.00
86704	0	0	0	0.89000E-01	7560.0	40241.0	0.0	3.05	1000.00	1.03	0.30	0.00	0.00	0.00
88001	2	0	0	0.76700E-07	15000.0	77000.0	0.0	8.87	0.00	2000.00	0.00	0.00	0.00	0.00
88002	2	0	0	0.60500E-06	27000.0	57000.0	0.0	11.42	0.00	2000.00	0.00	0.00	0.00	0.00
88003	2	0	0	0.60400E-06	42000.0	63000.0	0.0	15.95	0.00	4000.00	0.00	0.00	0.00	0.00
88004	2	0	0	0.25300E-05	58000.0	65000.0	0.0	13.08	0.00	2000.00	0.00	0.00	0.00	0.00
88005	2	0	0	0.16400E-06	44000.0	34000.0	0.0	9.04	0.00	4000.00	0.00	0.00	0.00	0.00
88006	2	0	0	0.32400E-06	23000.0	45000.0	0.0	8.79	0.00	2000.00	0.00	0.00	0.00	0.00
88007	2	0	0	0.97400E-05	25000.0	44000.0	0.0	39.81	0.00	2000.00	0.00	0.00	0.00	0.00
88008	2	0	0	0.47600E-06	1000.0	34000.0	0.0	14.22	0.00	3000.00	0.00	0.00	0.00	0.00
88009	2	0	0	0.15300E-06	10000.0	34000.0	0.0	9.97	0.00	3000.00	0.00	0.00	0.00	0.00
88010	2	0	0	0.14600E-06	10000.0	30000.0	0.0	9.67	0.00	3000.00	0.00	0.00	0.00	0.00
88011	2	0	0	0.11400E-06	14000.0	30000.0	0.0	9.47	0.00	3000.00	0.00	0.00	0.00	0.00
88012	2	0	0	0.63800E-06	9000.0	26000.0	0.0	10.87	0.00	2000.00	0.00	0.00	0.00	0.00
88013	2	0	0	0.17100E-06	12000.0	26000.0	0.0	9.47	0.00	2000.00	0.00	0.00	0.00	0.00
88014	2	0	0	0.81100E-07	18000.0	19000.0	0.0	11.63	0.00	3000.00	0.00	0.00	0.00	0.00

*** ROUGH RIDER FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
88015	2	0	0	0.11700E-06	21000.0	17000.0	0.0	9.81	0.00	3000.00	0.00	0.00	0.00	0.00
88016	2	0	0	0.17500E-07	23000.0	2000.0	0.0	10.26	0.00	4000.00	0.00	0.00	0.00	0.00
90002	2	0	0	0.83800E-08	-27000.0	75000.0	0.0	10.26	0.00	4000.00	0.00	0.00	0.00	0.00
90005	2	0	0	0.14900E-07	-23000.0	73000.0	0.0	10.26	0.00	4000.00	0.00	0.00	0.00	0.00
90007	2	0	0	0.14900E-07	-24000.0	67000.0	0.0	10.26	0.00	3000.00	0.00	0.00	0.00	0.00
90009	2	0	0	0.83800E-08	-18000.0	62000.0	0.0	10.26	0.00	4000.00	0.00	0.00	0.00	0.00
90010	2	0	0	0.33800E-08	-13000.0	58000.0	0.0	7.05	0.00	4000.00	0.00	0.00	0.00	0.00
90014	2	0	0	0.20800E-07	-3000.0	77000.0	0.0	14.54	0.00	2000.00	0.00	0.00	0.00	0.00
90015	2	0	0	0.86700E-07	8000.0	72000.0	0.0	11.69	0.00	4000.00	0.00	0.00	0.00	0.00
90022	2	0	0	0.25300E-05	58000.0	65000.0	0.0	12.48	0.00	2000.00	0.00	0.00	0.00	0.00
90039	2	0	0	0.25400E-06	10000.0	31000.0	0.0	10.73	0.00	2000.00	0.00	0.00	0.00	0.00
90040	2	0	0	0.28800E-07	12000.0	29000.0	0.0	8.79	0.00	4000.00	0.00	0.00	0.00	0.00
90052	2	0	0	0.12500E-09	24000.0	3000.0	0.0	7.62	0.00	4000.00	0.00	0.00	0.00	0.00
95001	2	0	0	0.44600E-07	-22000.0	80000.0	0.0	11.29	0.00	3000.00	0.00	0.00	0.00	0.00
95002	2	0	0	0.89400E-07	-27000.0	75000.0	0.0	10.03	0.00	4000.00	0.00	0.00	0.00	0.00
95003	2	0	0	0.65700E-07	-27000.0	72000.0	0.0	9.23	0.00	3000.00	0.00	0.00	0.00	0.00
95004	2	0	0	0.15900E-06	-27000.0	69000.0	0.0	11.60	0.00	3000.00	0.00	0.00	0.00	0.00
95005	2	0	0	0.50600E-07	-23000.0	73000.0	0.0	9.92	0.00	4000.00	0.00	0.00	0.00	0.00
95006	2	0	0	0.65800E-07	-21000.0	70000.0	0.0	10.21	0.00	3000.00	0.00	0.00	0.00	0.00
95007	2	0	0	0.87100E-07	-24000.0	67000.0	0.0	11.56	0.00	3000.00	0.00	0.00	0.00	0.00
95008	2	0	0	0.19500E-06	-18000.0	69000.0	0.0	11.73	0.00	2000.00	0.00	0.00	0.00	0.00
95009	2	0	0	0.38900E-07	-18000.0	62000.0	0.0	8.32	0.00	4000.00	0.00	0.00	0.00	0.00
95010	2	0	0	0.71200E-07	-13000.0	58000.0	0.0	11.60	0.00	4000.00	0.00	0.00	0.00	0.00
95011	2	0	0	0.26100E-07	-19000.0	55000.0	0.0	8.42	0.00	4000.00	0.00	0.00	0.00	0.00
95012	2	0	0	0.67700E-07	0.0	92000.0	0.0	11.44	0.00	3000.00	0.00	0.00	0.00	0.00
95013	2	0	0	0.56400E-07	5000.0	94000.0	0.0	11.61	0.00	4000.00	0.00	0.00	0.00	0.00
95015	2	0	0	0.80600E-08	8000.0	72000.0	0.0	9.49	0.00	4000.00	0.00	0.00	0.00	0.00
95016	2	0	0	0.22600E-07	8000.0	64000.0	0.0	8.63	0.00	4000.00	0.00	0.00	0.00	0.00
95017	2	0	0	0.18800E-06	8000.0	61000.0	0.0	11.47	0.00	2000.00	0.00	0.00	0.00	0.00
95018	2	0	0	0.10200E-06	10000.0	56000.0	0.0	10.24	0.00	2000.00	0.00	0.00	0.00	0.00
95019	2	0	0	0.91900E-06	26000.0	56000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95020	2	0	0	0.13200E-05	42000.0	65000.0	0.0	11.94	0.00	4000.00	0.00	0.00	0.00	0.00
95021	2	0	0	0.34800E-05	42000.0	63000.0	0.0	35.38	0.00	2000.00	0.00	0.00	0.00	0.00
95023	2	0	0	0.48700E-06	47000.0	41000.0	0.0	10.38	0.00	5000.00	0.00	0.00	0.00	0.00
95024	2	0	0	0.47900E-06	47000.0	39000.0	0.0	10.28	0.00	2000.00	0.00	0.00	0.00	0.00
95025	2	0	0	0.29700E-06	43000.0	33000.0	0.0	9.79	0.00	3000.00	0.00	0.00	0.00	0.00
95026	2	0	0	0.65000E-06	46000.0	34000.0	0.0	10.51	0.00	4000.00	0.00	0.00	0.00	0.00
95027	2	0	0	0.49200E-06	50000.0	34000.0	0.0	9.64	0.00	4000.00	0.00	0.00	0.00	0.00
95028	2	0	0	0.87800E-06	45000.0	27000.0	0.0	12.16	0.00	3000.00	0.00	0.00	0.00	0.00

*** ROUGH RIDER FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
95029	2	0	0	0.80600E-06	47000.0	16000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95030	2	0	0	0.42600E-06	10000.0	39000.0	0.0	15.41	0.00	2000.00	0.00	0.00	0.00	0.00
95031	2	0	0	0.72500E-07	14000.0	39000.0	0.0	7.45	0.00	2000.00	0.00	0.00	0.00	0.00
95032	2	0	0	0.52800E-06	6000.0	37000.0	0.0	10.87	0.00	2000.00	0.00	0.00	0.00	0.00
95033	2	0	0	0.11000E-05	12000.0	37000.0	0.0	12.47	0.00	2000.00	0.00	0.00	0.00	0.00
95034	2	0	0	0.64600E-06	14000.0	37000.0	0.0	13.04	0.00	2000.00	0.00	0.00	0.00	0.00
95035	2	0	0	0.10700E-05	2000.0	35000.0	0.0	14.44	0.00	2000.00	0.00	0.00	0.00	0.00
95036	2	0	0	0.24300E-06	6000.0	35000.0	0.0	8.30	0.00	2000.00	0.00	0.00	0.00	0.00
95037	2	0	0	0.28900E-06	8000.0	35000.0	0.0	10.28	0.00	2000.00	0.00	0.00	0.00	0.00
95038	2	0	0	0.69700E-06	12000.0	33000.0	0.0	13.33	0.00	4000.00	0.00	0.00	0.00	0.00
95040	2	0	0	0.31900E-06	12000.0	29000.0	0.0	10.11	0.00	4000.00	0.00	0.00	0.00	0.00
95041	2	0	0	0.14400E-06	21000.0	23000.0	0.0	11.42	0.00	3000.00	0.00	0.00	0.00	0.00
95042	2	0	0	0.15100E-06	19000.0	19000.0	0.0	12.41	0.00	4000.00	0.00	0.00	0.00	0.00
95043	2	0	0	0.13300E-06	24000.0	19000.0	0.0	12.05	0.00	4000.00	0.00	0.00	0.00	0.00
95044	2	0	0	0.11300E-06	16000.0	15000.0	0.0	12.26	0.00	4000.00	0.00	0.00	0.00	0.00
95045	2	0	0	0.29800E-06	20000.0	15000.0	0.0	12.87	0.00	4000.00	0.00	0.00	0.00	0.00
95046	2	0	0	0.31400E-06	24000.0	15000.0	0.0	11.85	0.00	4000.00	0.00	0.00	0.00	0.00
95047	2	0	0	0.21100E-06	16000.0	11000.0	0.0	12.88	0.00	4000.00	0.00	0.00	0.00	0.00
95048	2	0	0	0.14700E-06	20000.0	12000.0	0.0	11.70	0.00	3000.00	0.00	0.00	0.00	0.00
95049	2	0	0	0.11100E-06	24000.0	11000.0	0.0	11.46	0.00	4000.00	0.00	0.00	0.00	0.00
95050	2	0	0	0.39300E-07	14000.0	5000.0	0.0	10.60	0.00	6000.00	0.00	0.00	0.00	0.00
95051	2	0	0	0.44600E-07	24000.0	7000.0	0.0	10.27	0.00	4000.00	0.00	0.00	0.00	0.00
95052	2	0	0	0.21200E-07	24000.0	3000.0	0.0	10.43	0.00	4000.00	0.00	0.00	0.00	0.00
95053	2	0	0	0.27300E-07	24000.0	1000.0	0.0	6.17	0.00	2000.00	0.00	0.00	0.00	0.00
99501	0	0	0	0.28400E+02	34200.0	20100.0	0.0	30.50	866.00	15.00	1.10	0.00	0.00	0.00
99502	0	0	0	0.53800E+02	43800.0	39700.0	0.0	59.50	870.00	10.00	1.80	0.00	0.00	0.00
99503	0	0	0	0.19000E+01	28904.0	95432.0	0.0	13.90	440.00	19.50	0.40	0.00	0.00	0.00

Scairt Woman Field

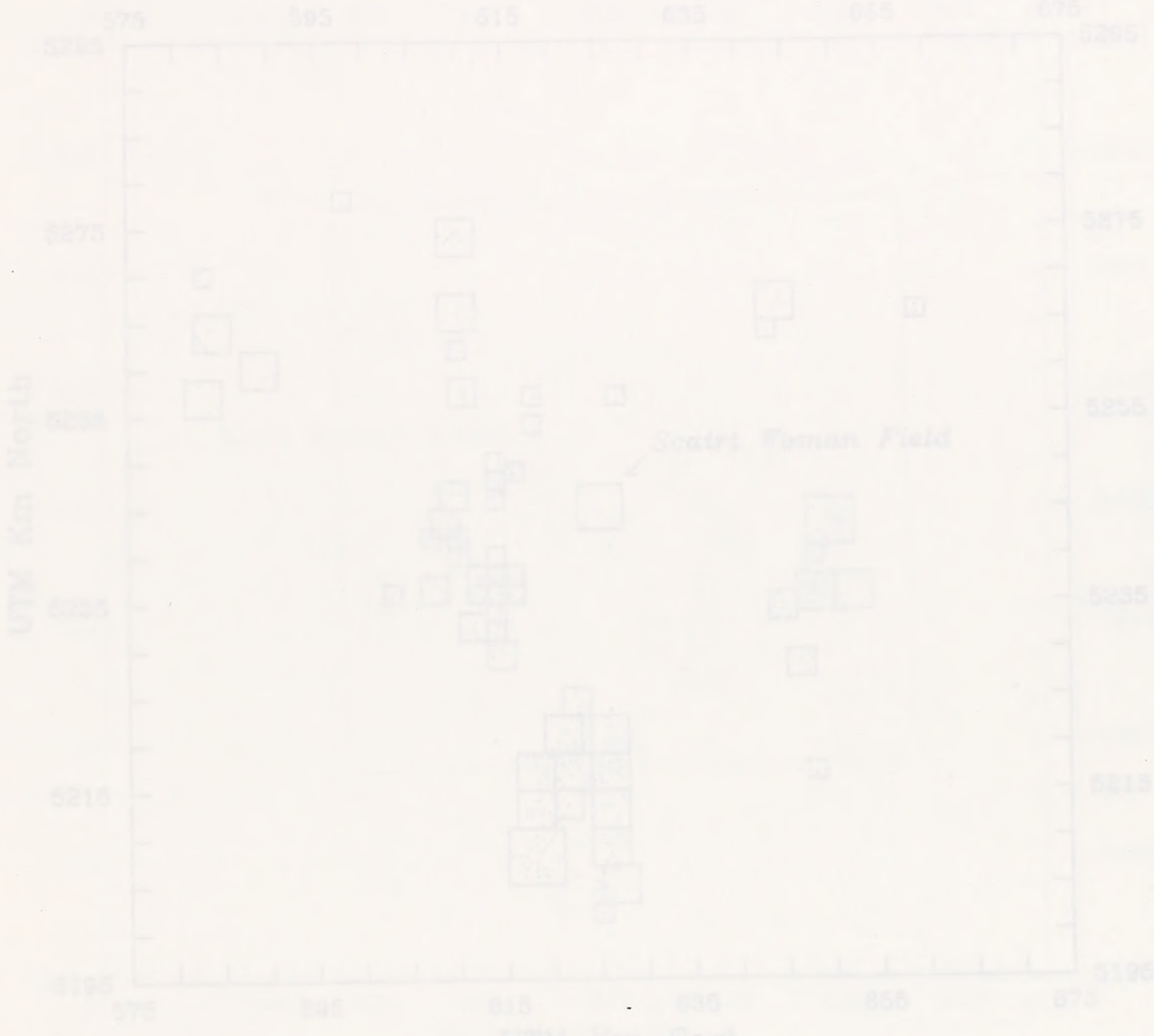


Figure B-33
Scairt Woman Field
Locations of Existing SO_2 Point and Area Sources

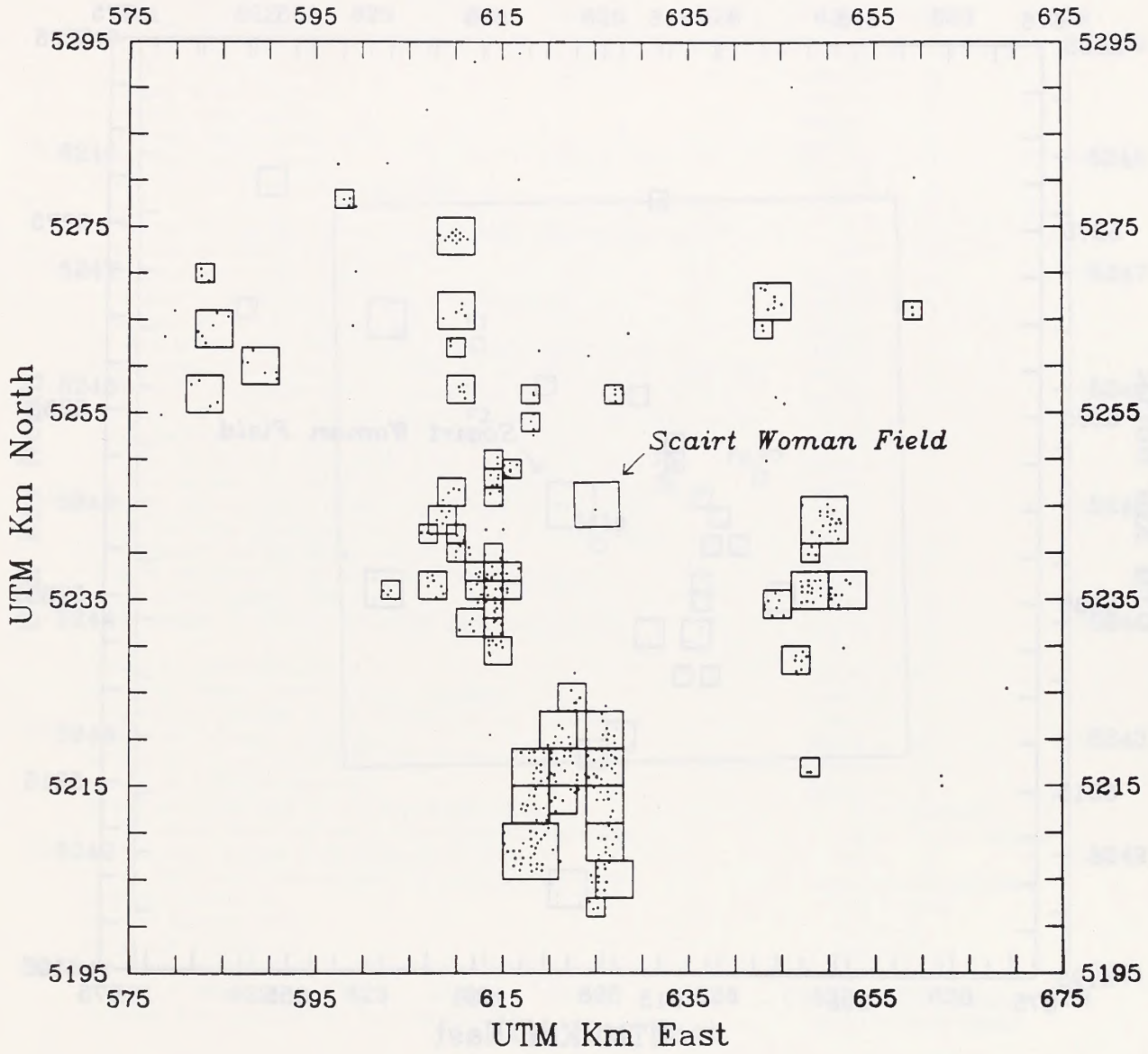


Figure B-34
Scairt Woman Field
Locations of Future SO_2 Point and Area Sources

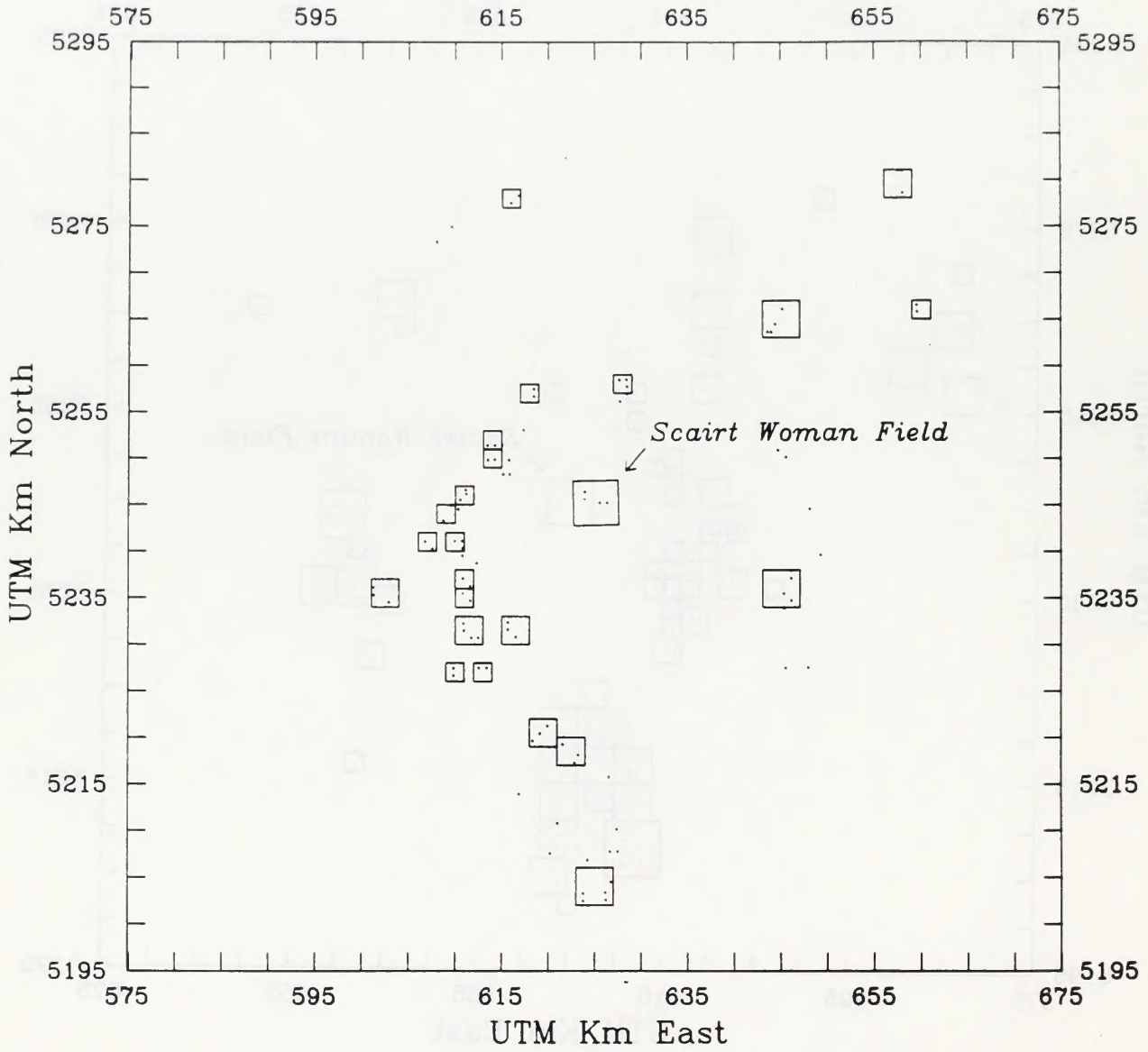


Figure B-35
Scairt Woman Field
Locations of Study-Field SO_2 Sources

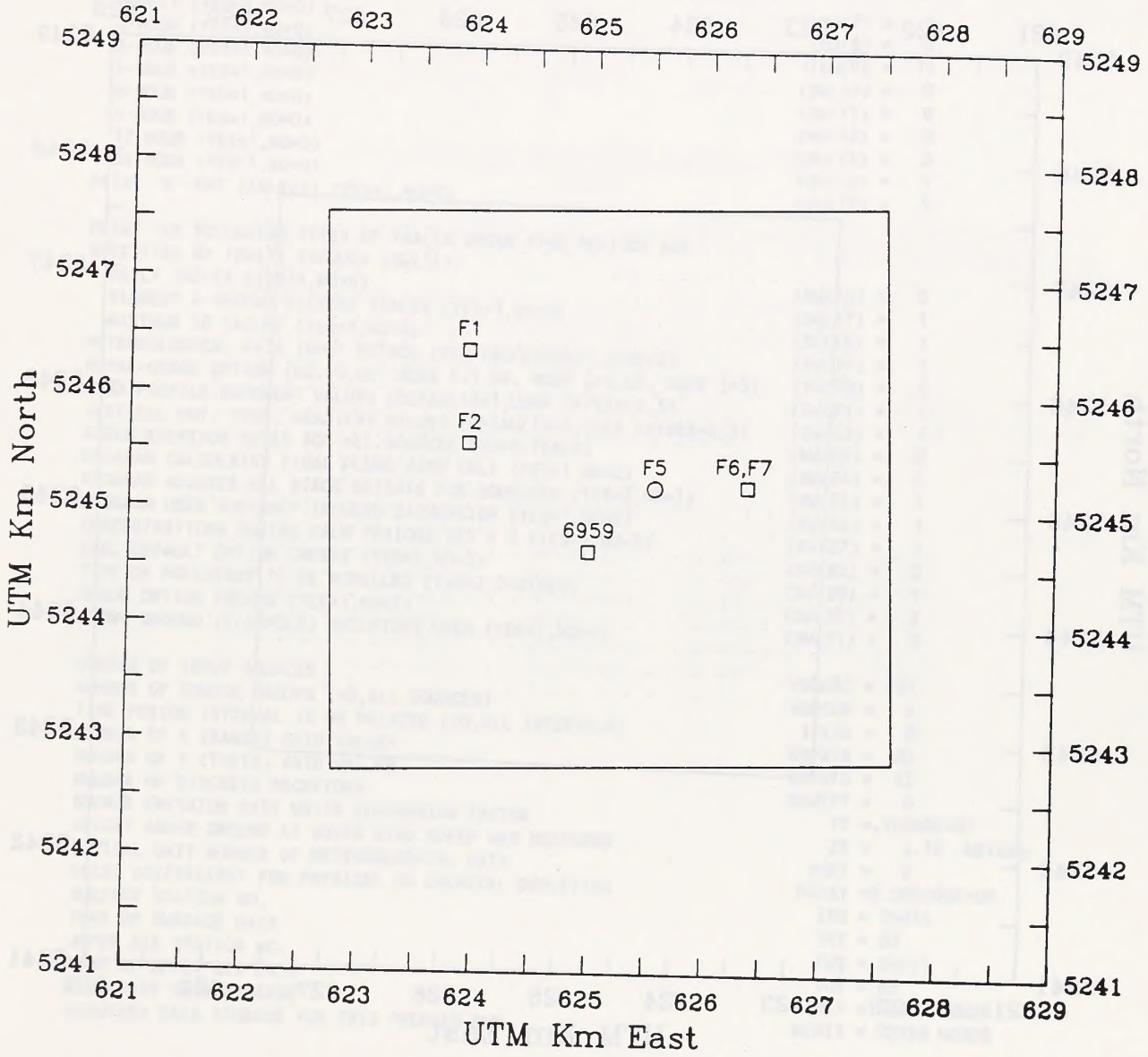
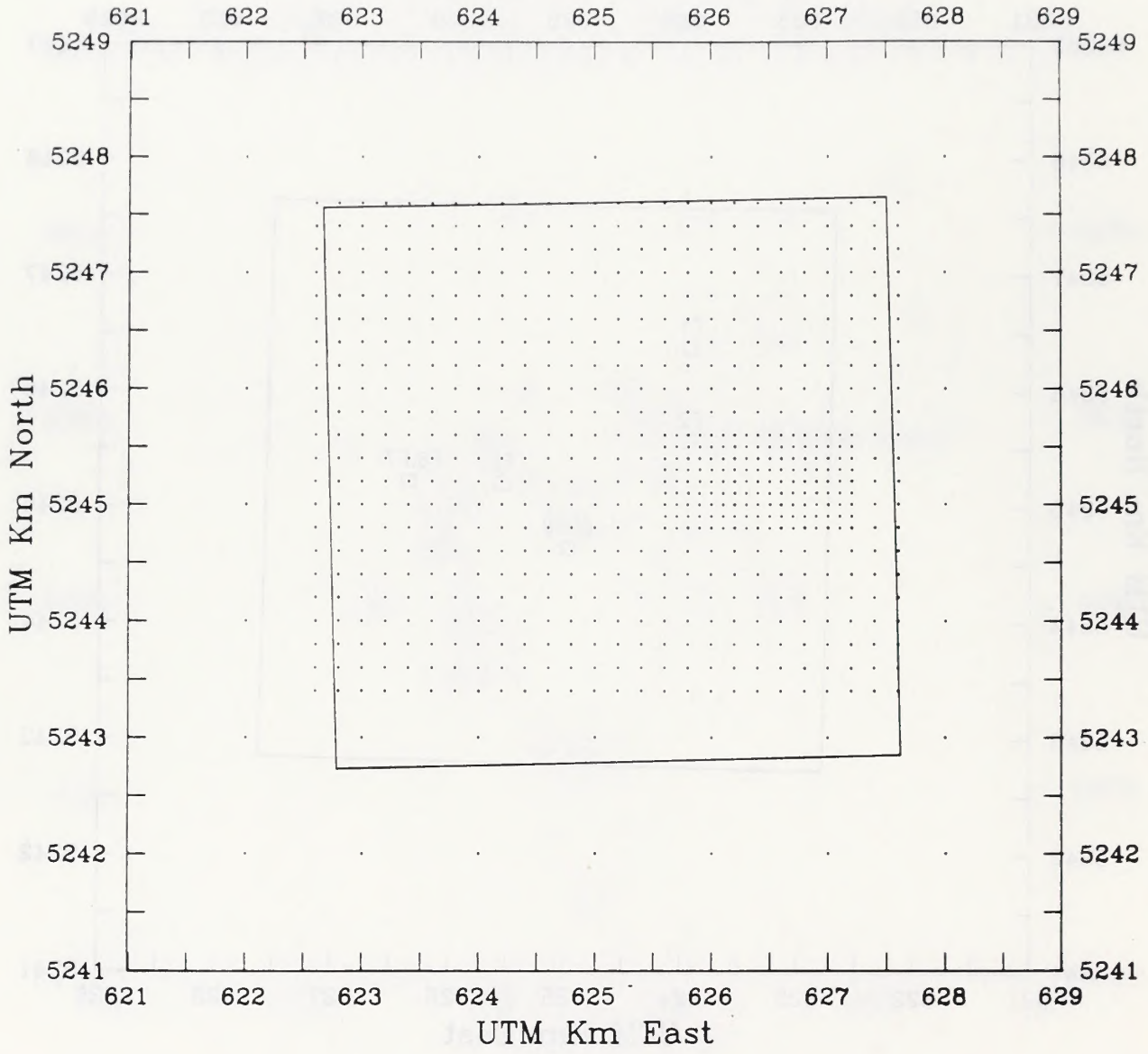


Figure B-36
Scairt Woman Field
ISCST Receptor Locations



CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 181
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 4
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 26
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 22
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 92159 WORDS

```
***            SCAIRT WOMAN FIELD SO2 - RECEPTOR GROUP 1            ***

                  *** METEOROLOGICAL DAYS TO BE PROCESSED ***
                                   (IF=1)

1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 0

          *** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
                                  (NSOGRP)

     4,    6,    2,    6,

                   *** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
                                   (IDSOR)

       1,-79999, 90001,-99999, 40001,-79999, 95001,-98999, 99501,-99999,       1,-99999, 40001,-89999,
   95001,-98999, 99501,-99999,

           *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                (METERS/SEC)

                     1.54,   3.09,   5.14,   8.23,  10.80,

                          *** WIND PROFILE EXPONENTS ***
```

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** SCAIRT WOMAN FIELD SO2 - RECEPTOR GROUP 1 ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

22600.0, 22800.0, 23000.0, 23200.0, 23400.0, 23600.0, 23800.0, 24000.0, 24200.0, 24400.0,
24600.0, 24800.0, 25000.0, 25200.0, 25400.0, 25600.0, 25800.0, 26000.0, 26200.0, 26400.0,
26600.0, 26800.0, 27000.0, 27200.0, 27400.0, 27600.0,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

43400.0, 43600.0, 43800.0, 44000.0, 44200.0, 44400.0, 44600.0, 44800.0, 45000.0, 45200.0,
45400.0, 45600.0, 45800.0, 46000.0, 46200.0, 46400.0, 46600.0, 46800.0, 47000.0, 47200.0,
47400.0, 47600.0,

*** SCAIRT WOMAN FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
4085	0	0	0	0.39000E-01	46131.0	90103.0	0.0	6.71	1000.00	3.08	0.30	0.00	0.00	0.00
5512	0	0	0	0.42400E+00	59139.0	80248.0	0.0	6.71	1000.00	0.93	0.30	0.00	0.00	0.00
6205	0	0	0	0.31200E+00	45213.0	55939.0	0.0	6.71	1000.00	2.42	0.30	0.00	0.00	0.00
24085	0	0	0	0.27000E+00	46131.0	90103.0	0.0	3.05	1000.00	21.22	0.30	0.00	0.00	0.00
25512	0	0	0	0.96480E+01	59139.0	80248.0	0.0	12.19	1000.00	21.09	0.30	0.00	0.00	0.00
26205	0	0	0	0.21580E+01	45213.0	55939.0	0.0	6.10	1000.00	16.76	0.30	0.00	0.00	0.00
45168	0	0	0	0.19500E+00	13191.0	42464.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
46959	0	0	0	0.34700E+00	24941.0	44690.0	0.0	5.18	1000.00	2.30	0.30	0.00	0.00	0.00
47012	0	0	0	0.57000E-01	21191.0	6938.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47206	0	0	0	0.14300E+00	-21693.0	54744.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47313	0	0	0	0.31700E+00	18361.0	53267.0	0.0	4.57	1000.00	4.69	0.30	0.00	0.00	0.00
47337	0	0	0	0.10170E+01	28527.0	63540.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
47465	0	0	0	0.38000E-01	23158.0	14596.0	0.0	6.71	1000.00	1.23	0.30	0.00	0.00	0.00
47478	0	0	0	0.60000E-02	-2686.0	81745.0	0.0	6.71	1000.00	2.61	0.30	0.00	0.00	0.00
47511	0	0	0	0.14000E-01	-749.0	77173.0	0.0	6.71	1000.00	6.09	0.30	0.00	0.00	0.00
47675	0	0	0	0.86000E-01	26078.0	23573.0	0.0	6.71	1000.00	0.95	0.30	0.00	0.00	0.00
47823	0	0	0	0.16400E+00	18934.0	61668.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48202	0	0	0	0.45700E+00	51591.0	29807.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
48238	0	0	0	0.76000E-01	-13021.0	60483.0	0.0	6.71	1000.00	1.88	0.30	0.00	0.00	0.00
48372	0	0	0	0.50300E+00	16789.0	93764.0	0.0	6.71	1000.00	3.20	0.30	0.00	0.00	0.00
48403	0	0	0	0.49100E+00	62049.0	16072.0	0.0	6.71	1000.00	4.57	0.30	0.00	0.00	0.00
48404	0	0	0	0.13550E+01	-21294.0	63169.0	0.0	6.71	1000.00	49.61	0.30	0.00	0.00	0.00
48564	0	0	0	0.59800E+00	11383.0	41326.0	0.0	10.67	1000.00	9.30	0.30	0.00	0.00	0.00
48580	0	0	0	0.20300E+00	-20172.0	65962.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
48651	0	0	0	0.52000E-01	11383.0	41326.0	0.0	10.67	1000.00	9.30	0.30	0.00	0.00	0.00
48717	0	0	0	0.30000E-02	2546.0	81828.0	0.0	6.71	1000.00	2.80	0.30	0.00	0.00	0.00
48726	0	0	0	0.10510E+01	43298.0	49845.0	0.0	7.62	1000.00	9.30	0.30	0.00	0.00	0.00
48737	0	0	0	0.11100E+00	-805.0	70151.0	0.0	8.53	1000.00	3.54	0.30	0.00	0.00	0.00
49183	0	0	0	0.32700E+00	12331.0	34673.0	0.0	6.71	1000.00	6.13	0.30	0.00	0.00	0.00
49594	0	0	0	0.69000E-01	15056.0	42501.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
49799	0	0	0	0.10500E+00	44293.0	56681.0	0.0	6.71	1000.00	0.81	0.30	0.00	0.00	0.00
49815	0	0	0	0.38000E-01	62059.0	14971.0	0.0	6.71	1000.00	0.35	0.30	0.00	0.00	0.00
49862	0	0	0	0.35600E+00	22762.0	27079.0	0.0	6.71	1000.00	8.10	0.30	0.00	0.00	0.00
50515	0	0	0	0.19000E+00	16718.0	80063.0	0.0	6.71	1000.00	5.78	0.30	0.00	0.00	0.00
50951	0	0	0	0.20000E-02	-1114.0	64348.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
51231	0	0	0	0.31900E+00	9007.0	35998.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
51313	0	0	0	0.14100E+00	24187.0	61137.0	0.0	6.71	1000.00	5.49	0.30	0.00	0.00	0.00
65168	0	0	0	0.89000E-01	13191.0	42464.0	0.0	3.05	1000.00	1.72	0.30	0.00	0.00	0.00
66959	0	0	0	0.83650E+01	24954.0	44721.0	0.0	10.67	1000.00	55.41	0.30	0.00	0.00	0.00

*** SCAIRT WOMAN FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
67012	0	0	0	0.26000E+00	21191.0	6938.0	0.0	3.05	1000.00	16.98	0.30	0.00	0.00	0.00
67313	0	0	0	0.37000E-01	18361.0	53267.0	0.0	0.30	1000.00	0.55	0.30	0.00	0.00	0.00
67337	0	0	0	0.13920E+01	28527.0	63540.0	0.0	6.10	1000.00	14.42	0.30	0.00	0.00	0.00
67465	0	0	0	0.10000E-02	23158.0	14596.0	0.0	3.05	1000.00	0.04	0.30	0.00	0.00	0.00
67823	0	0	0	0.15370E+01	18934.0	61668.0	0.0	3.05	1000.00	58.12	0.30	0.00	0.00	0.00
68075	0	0	0	0.17000E-01	13697.0	20486.0	0.0	3.05	1000.00	1.43	0.30	0.00	0.00	0.00
68202	0	0	0	0.17020E+01	51591.0	29807.0	0.0	0.30	1000.00	13.84	0.30	0.00	0.00	0.00
68275	0	0	0	0.59900E+00	69042.0	25493.0	0.0	3.66	1000.00	6.45	0.30	0.00	0.00	0.00
68717	0	0	0	0.18000E-01	2546.0	81828.0	0.0	0.30	1000.00	17.91	0.30	0.00	0.00	0.00
68726	0	0	0	0.97100E+00	43298.0	49845.0	0.0	3.05	1000.00	8.60	0.30	0.00	0.00	0.00
69183	0	0	0	0.10000E-02	12331.0	34673.0	0.0	3.05	1000.00	0.02	0.30	0.00	0.00	0.00
70515	0	0	0	0.11700E+00	16718.0	80063.0	0.0	3.05	1000.00	3.54	0.30	0.00	0.00	0.00
70816	0	0	0	0.13300E+00	6848.0	87593.0	0.0	0.30	1000.00	5.42	0.30	0.00	0.00	0.00
71313	0	0	0	0.13200E+00	24187.0	61137.0	0.0	3.05	1000.00	5.14	0.30	0.00	0.00	0.00
80101	0	0	0	0.10000E-02	27406.0	10124.0	0.0	6.71	1000.00	3.13	0.30	0.00	0.00	0.00
80102	0	0	0	0.49000E-01	27465.0	7714.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80103	0	0	0	0.10000E-02	26661.0	7697.0	0.0	6.71	1000.00	3.13	0.30	0.00	0.00	0.00
80104	0	0	0	0.49000E-01	24246.0	6832.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80216	0	0	0	0.24100E+00	16868.0	13908.0	0.0	6.71	1000.00	7.76	0.30	0.00	0.00	0.00
80301	0	0	0	0.64500E+00	44699.0	50880.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80302	0	0	0	0.64500E+00	45514.0	50111.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80306	0	0	0	0.64500E+00	49202.0	39630.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80310	0	0	0	0.64500E+00	45298.0	33928.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80312	0	0	0	0.64500E+00	45481.0	27483.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80314	0	0	0	0.64500E+00	47879.0	27547.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80503	0	0	0	0.31100E+00	17349.0	53031.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80506	0	0	0	0.40700E+00	15042.0	51444.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
80512	0	0	0	0.40700E+00	15839.0	49844.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
80514	0	0	0	0.31100E+00	15134.0	48239.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80525	0	0	0	0.31100E+00	10349.0	44495.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80601	0	0	0	0.31100E+00	23905.0	46362.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80602	0	0	0	0.31100E+00	23943.0	45574.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
80607	0	0	0	0.34700E+00	26325.0	45220.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
81401	0	0	0	0.23100E+00	26476.0	15738.0	0.0	6.71	1000.00	6.70	0.30	0.00	0.00	0.00
81501	0	0	0	0.52000E-01	20960.0	10779.0	0.0	6.71	1000.00	2.78	0.30	0.00	0.00	0.00
81502	0	0	0	0.52000E-01	20197.0	7545.0	0.0	6.71	1000.00	2.78	0.30	0.00	0.00	0.00
81606	0	0	0	0.71600E+00	10777.0	39516.0	0.0	6.71	1000.00	11.13	0.30	0.00	0.00	0.00
81801	0	0	0	0.47800E+00	12372.0	38751.0	0.0	6.71	1000.00	8.97	0.30	0.00	0.00	0.00
81904	0	0	0	0.62800E+00	28465.0	56902.0	0.0	6.71	1000.00	9.18	0.30	0.00	0.00	0.00

*** SCAIRT WOMAN FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
81905	0	0	0	0.62800E+00	27689.0	56105.0	0.0	6.71	1000.00	9.18	0.30	0.00	0.00	0.00
82001	0	0	0	0.12600E+00	9559.0	74963.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
82002	0	0	0	0.12600E+00	7990.0	73328.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
85304	0	0	0	0.34300E+00	48064.0	44550.0	0.0	3.05	1000.00	2.71	0.30	0.00	0.00	0.00
85503	0	0	0	0.33700E+00	17373.0	53055.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85512	0	0	0	0.17400E+01	15803.0	49844.0	0.0	9.14	1000.00	3.10	0.30	0.00	0.00	0.00
85515	0	0	0	0.33700E+00	15861.0	48254.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85525	0	0	0	0.33700E+00	10315.0	44503.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85601	0	0	0	0.33700E+00	23919.0	46392.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85602	0	0	0	0.33700E+00	23907.0	45572.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
85605	0	0	0	0.15130E+02	25539.0	45202.0	0.0	9.14	1000.00	100.26	0.30	0.00	0.00	0.00
85606	0	0	0	0.15130E+02	26342.0	45221.0	0.0	9.14	1000.00	100.26	0.30	0.00	0.00	0.00
85607	0	0	0	0.83650E+01	26359.0	45222.0	0.0	6.10	1000.00	55.41	0.30	0.00	0.00	0.00
88001	2	0	0	0.76700E-07	15000.0	77000.0	0.0	8.87	0.00	2000.00	0.00	0.00	0.00	0.00
88002	2	0	0	0.24000E-06	17000.0	56000.0	0.0	9.34	0.00	2000.00	0.00	0.00	0.00	0.00
88003	2	0	0	0.60500E-06	27000.0	57000.0	0.0	11.42	0.00	2000.00	0.00	0.00	0.00	0.00
88004	2	0	0	0.14000E-05	56000.0	78000.0	0.0	20.14	0.00	3000.00	0.00	0.00	0.00	0.00
88005	2	0	0	0.60400E-06	43000.0	63000.0	0.0	15.95	0.00	4000.00	0.00	0.00	0.00	0.00
88006	2	0	0	0.25300E-05	59000.0	65000.0	0.0	13.08	0.00	2000.00	0.00	0.00	0.00	0.00
88007	2	0	0	0.16400E-06	43000.0	34000.0	0.0	9.04	0.00	4000.00	0.00	0.00	0.00	0.00
88008	2	0	0	0.97200E-06	13000.0	51000.0	0.0	11.40	0.00	2000.00	0.00	0.00	0.00	0.00
88009	2	0	0	0.10700E-05	13000.0	49000.0	0.0	11.19	0.00	2000.00	0.00	0.00	0.00	0.00
88010	2	0	0	0.48600E-06	10000.0	45000.0	0.0	8.79	0.00	2000.00	0.00	0.00	0.00	0.00
88011	2	0	0	0.32400E-06	8000.0	43000.0	0.0	8.79	0.00	2000.00	0.00	0.00	0.00	0.00
88012	2	0	0	0.26800E-06	6000.0	40000.0	0.0	10.23	0.00	2000.00	0.00	0.00	0.00	0.00
88013	2	0	0	0.59100E-06	9000.0	40000.0	0.0	12.63	0.00	2000.00	0.00	0.00	0.00	0.00
88014	2	0	0	0.47600E-06	1000.0	34000.0	0.0	14.22	0.00	3000.00	0.00	0.00	0.00	0.00
88015	2	0	0	0.25900E-06	10000.0	36000.0	0.0	10.12	0.00	2000.00	0.00	0.00	0.00	0.00
88016	2	0	0	0.17100E-06	10000.0	34000.0	0.0	9.47	0.00	2000.00	0.00	0.00	0.00	0.00
88017	2	0	0	0.14600E-06	10000.0	30000.0	0.0	9.67	0.00	3000.00	0.00	0.00	0.00	0.00
88018	2	0	0	0.11400E-06	15000.0	30000.0	0.0	9.47	0.00	3000.00	0.00	0.00	0.00	0.00
88019	2	0	0	0.63800E-06	9000.0	26000.0	0.0	10.87	0.00	2000.00	0.00	0.00	0.00	0.00
88020	2	0	0	0.17100E-06	12000.0	26000.0	0.0	9.47	0.00	2000.00	0.00	0.00	0.00	0.00
88021	2	0	0	0.81100E-07	18000.0	19000.0	0.0	11.63	0.00	3000.00	0.00	0.00	0.00	0.00
88022	2	0	0	0.11700E-06	21000.0	17000.0	0.0	9.81	0.00	3000.00	0.00	0.00	0.00	0.00
88023	2	0	0	0.17500E-07	23000.0	2000.0	0.0	10.26	0.00	4000.00	0.00	0.00	0.00	0.00
90001	2	0	0	0.20800E-07	-3000.0	77000.0	0.0	14.54	0.00	2000.00	0.00	0.00	0.00	0.00
90003	2	0	0	0.83800E-08	-18000.0	62000.0	0.0	10.26	0.00	4000.00	0.00	0.00	0.00	0.00
90004	2	0	0	0.33800E-08	-13000.0	58000.0	0.0	7.05	0.00	4000.00	0.00	0.00	0.00	0.00

*** SCAIRT WOMAN FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
90006	2	0	0	0.86700E-07	8000.0	72000.0	0.0	11.69	0.00	4000.00	0.00	0.00	0.00	0.00
90015	2	0	0	0.25300E-05	58000.0	65000.0	0.0	12.48	0.00	2000.00	0.00	0.00	0.00	0.00
90027	2	0	0	0.21700E-06	8000.0	45000.0	0.0	8.89	0.00	3000.00	0.00	0.00	0.00	0.00
90028	2	0	0	0.16700E-06	7000.0	42000.0	0.0	9.35	0.00	3000.00	0.00	0.00	0.00	0.00
90041	2	0	0	0.13700E-06	10000.0	31000.0	0.0	10.46	0.00	3000.00	0.00	0.00	0.00	0.00
90043	2	0	0	0.60300E-07	13000.0	31000.0	0.0	8.48	0.00	2000.00	0.00	0.00	0.00	0.00
90056	2	0	0	0.12500E-09	25000.0	3000.0	0.0	7.62	0.00	4000.00	0.00	0.00	0.00	0.00
95002	2	0	0	0.19500E-06	-18000.0	69000.0	0.0	11.73	0.00	2000.00	0.00	0.00	0.00	0.00
95003	2	0	0	0.38900E-07	-18000.0	62000.0	0.0	8.32	0.00	4000.00	0.00	0.00	0.00	0.00
95004	2	0	0	0.71200E-07	-13000.0	58000.0	0.0	11.60	0.00	4000.00	0.00	0.00	0.00	0.00
95005	2	0	0	0.26100E-07	-19000.0	55000.0	0.0	8.42	0.00	4000.00	0.00	0.00	0.00	0.00
95006	2	0	0	0.80600E-08	8000.0	72000.0	0.0	9.49	0.00	4000.00	0.00	0.00	0.00	0.00
95007	2	0	0	0.22600E-07	8000.0	64000.0	0.0	8.63	0.00	4000.00	0.00	0.00	0.00	0.00
95008	2	0	0	0.18800E-06	9000.0	61000.0	0.0	11.47	0.00	2000.00	0.00	0.00	0.00	0.00
95009	2	0	0	0.51400E-07	9000.0	56000.0	0.0	10.12	0.00	3000.00	0.00	0.00	0.00	0.00
95010	2	0	0	0.25500E-06	17000.0	56000.0	0.0	11.22	0.00	2000.00	0.00	0.00	0.00	0.00
95011	2	0	0	0.91900E-06	26000.0	56000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95012	2	0	0	0.25000E-06	17000.0	53000.0	0.0	8.56	0.00	2000.00	0.00	0.00	0.00	0.00
95013	2	0	0	0.13200E-05	42000.0	65000.0	0.0	11.94	0.00	4000.00	0.00	0.00	0.00	0.00
95014	2	0	0	0.34800E-05	42000.0	63000.0	0.0	35.38	0.00	2000.00	0.00	0.00	0.00	0.00
95016	2	0	0	0.48700E-06	47000.0	41000.0	0.0	10.38	0.00	5000.00	0.00	0.00	0.00	0.00
95017	2	0	0	0.47900E-06	47000.0	39000.0	0.0	10.28	0.00	2000.00	0.00	0.00	0.00	0.00
95018	2	0	0	0.29700E-06	43000.0	33000.0	0.0	9.79	0.00	3000.00	0.00	0.00	0.00	0.00
95019	2	0	0	0.65000E-06	46000.0	34000.0	0.0	10.51	0.00	4000.00	0.00	0.00	0.00	0.00
95020	2	0	0	0.49200E-06	50000.0	34000.0	0.0	9.64	0.00	4000.00	0.00	0.00	0.00	0.00
95021	2	0	0	0.87800E-06	45000.0	27000.0	0.0	12.16	0.00	3000.00	0.00	0.00	0.00	0.00
95022	2	0	0	0.80600E-06	47000.0	16000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95023	2	0	0	0.18000E-06	13000.0	49000.0	0.0	8.06	0.00	2000.00	0.00	0.00	0.00	0.00
95024	2	0	0	0.80800E-06	13000.0	47000.0	0.0	10.11	0.00	2000.00	0.00	0.00	0.00	0.00
95025	2	0	0	0.10600E-05	13000.0	45000.0	0.0	17.41	0.00	2000.00	0.00	0.00	0.00	0.00
95026	2	0	0	0.46100E-06	15000.0	48000.0	0.0	8.48	0.00	2000.00	0.00	0.00	0.00	0.00
95027	2	0	0	0.72000E-07	8000.0	45000.0	0.0	8.83	0.00	3000.00	0.00	0.00	0.00	0.00
95028	2	0	0	0.63000E-06	7000.0	42000.0	0.0	36.80	0.00	3000.00	0.00	0.00	0.00	0.00
95029	2	0	0	0.40400E-06	6000.0	41000.0	0.0	10.74	0.00	2000.00	0.00	0.00	0.00	0.00
95030	2	0	0	0.29800E-06	9000.0	41000.0	0.0	14.81	0.00	2000.00	0.00	0.00	0.00	0.00
95031	2	0	0	0.28500E-06	9000.0	39000.0	0.0	14.58	0.00	2000.00	0.00	0.00	0.00	0.00
95032	2	0	0	0.52700E-06	13000.0	39000.0	0.0	11.15	0.00	2000.00	0.00	0.00	0.00	0.00
95033	2	0	0	0.10700E-05	2000.0	35000.0	0.0	14.44	0.00	2000.00	0.00	0.00	0.00	0.00
95034	2	0	0	0.43500E-06	6000.0	35000.0	0.0	10.11	0.00	3000.00	0.00	0.00	0.00	0.00

*** SCAIRT WOMAN FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
95035	2	0	0	0.58100E-06	11000.0	37000.0	0.0	12.40	0.00	2000.00	0.00	0.00	0.00	0.00
95036	2	0	0	0.89600E-06	13000.0	37000.0	0.0	12.43	0.00	2000.00	0.00	0.00	0.00	0.00
95037	2	0	0	0.49600E-06	15000.0	37000.0	0.0	13.81	0.00	2000.00	0.00	0.00	0.00	0.00
95038	2	0	0	0.44100E-06	11000.0	35000.0	0.0	12.46	0.00	2000.00	0.00	0.00	0.00	0.00
95039	2	0	0	0.11200E-05	13000.0	35000.0	0.0	14.12	0.00	2000.00	0.00	0.00	0.00	0.00
95040	2	0	0	0.54300E-06	15000.0	35000.0	0.0	14.40	0.00	2000.00	0.00	0.00	0.00	0.00
95042	2	0	0	0.76600E-06	13000.0	33000.0	0.0	12.14	0.00	2000.00	0.00	0.00	0.00	0.00
95043	2	0	0	0.66400E-06	13000.0	31000.0	0.0	10.61	0.00	2000.00	0.00	0.00	0.00	0.00
95044	2	0	0	0.31600E-06	13000.0	28000.0	0.0	9.64	0.00	3000.00	0.00	0.00	0.00	0.00
95045	2	0	0	0.14400E-06	21000.0	23000.0	0.0	11.42	0.00	3000.00	0.00	0.00	0.00	0.00
95046	2	0	0	0.15100E-06	19000.0	19000.0	0.0	12.41	0.00	4000.00	0.00	0.00	0.00	0.00
95047	2	0	0	0.13300E-06	24000.0	19000.0	0.0	12.05	0.00	4000.00	0.00	0.00	0.00	0.00
95048	2	0	0	0.11300E-06	16000.0	15000.0	0.0	12.26	0.00	4000.00	0.00	0.00	0.00	0.00
95049	2	0	0	0.29800E-06	20000.0	15000.0	0.0	12.87	0.00	4000.00	0.00	0.00	0.00	0.00
95050	2	0	0	0.31400E-06	24000.0	15000.0	0.0	11.85	0.00	4000.00	0.00	0.00	0.00	0.00
95051	2	0	0	0.21100E-06	16000.0	11000.0	0.0	12.88	0.00	4000.00	0.00	0.00	0.00	0.00
95052	2	0	0	0.14700E-06	20000.0	12000.0	0.0	11.70	0.00	3000.00	0.00	0.00	0.00	0.00
95053	2	0	0	0.11100E-06	24000.0	11000.0	0.0	11.46	0.00	4000.00	0.00	0.00	0.00	0.00
95054	2	0	0	0.62100E-07	15000.0	5000.0	0.0	10.98	0.00	6000.00	0.00	0.00	0.00	0.00
95055	2	0	0	0.44600E-07	24000.0	7000.0	0.0	10.27	0.00	4000.00	0.00	0.00	0.00	0.00
95056	2	0	0	0.10100E-07	25000.0	3000.0	0.0	9.83	0.00	4000.00	0.00	0.00	0.00	0.00
95057	2	0	0	0.27300E-07	24000.0	1000.0	0.0	6.17	0.00	2000.00	0.00	0.00	0.00	0.00
99501	0	0	0	0.28400E+02	34200.0	20100.0	0.0	30.50	866.00	15.00	1.10	0.00	0.00	0.00
99502	0	0	0	0.53800E+02	43800.0	39700.0	0.0	59.50	870.00	10.00	1.80	0.00	0.00	0.00
99503	0	0	0	0.19000E+01	28904.0	95432.0	0.0	13.90	440.00	19.50	0.40	0.00	0.00	0.00

Smith Field

Figure B-37
Smith Field
Locations of Existing SO_2 Point and Area Sources

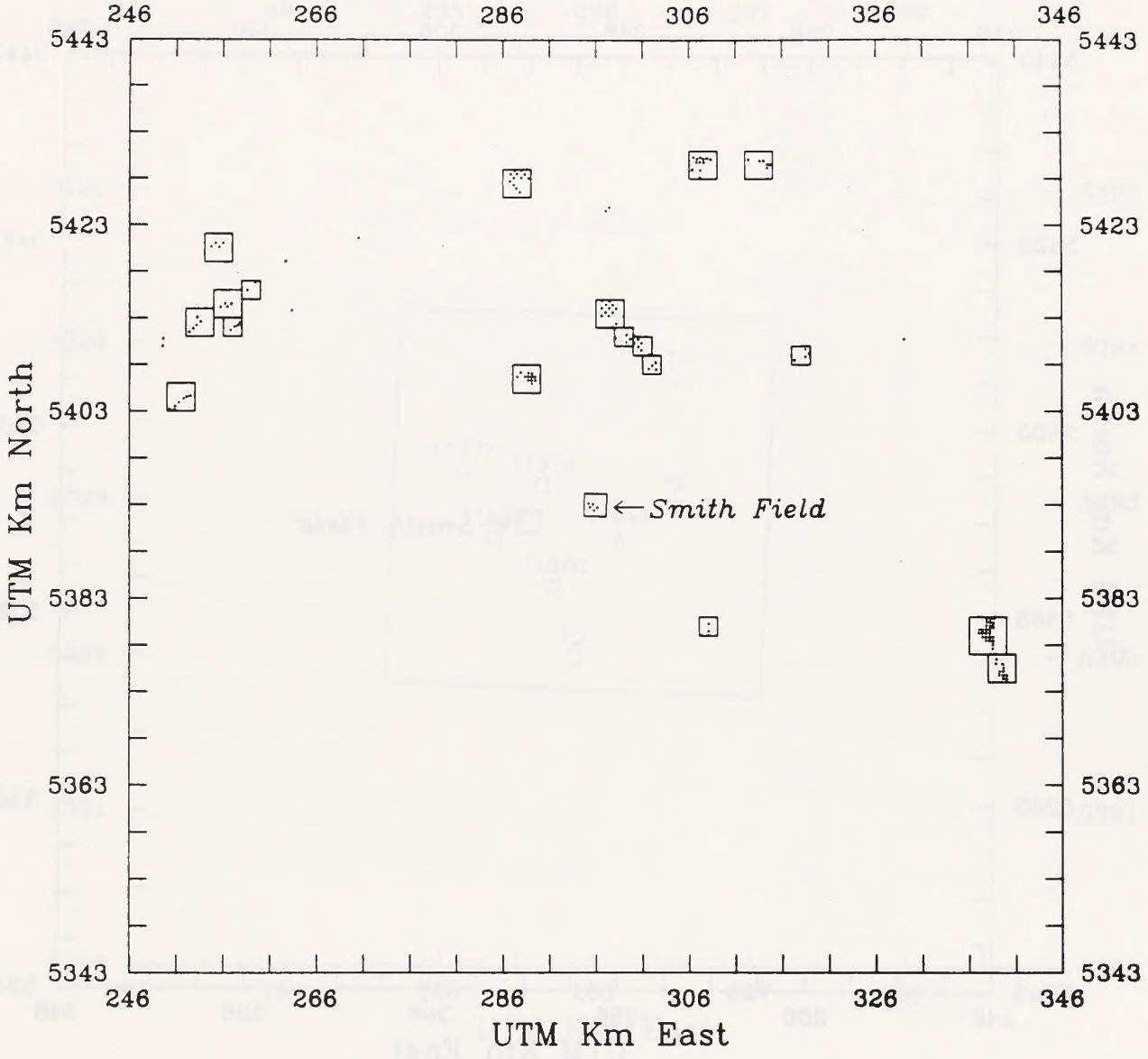


Figure B-38
Smith Field
Locations of Future SO_2 Point and Area Sources

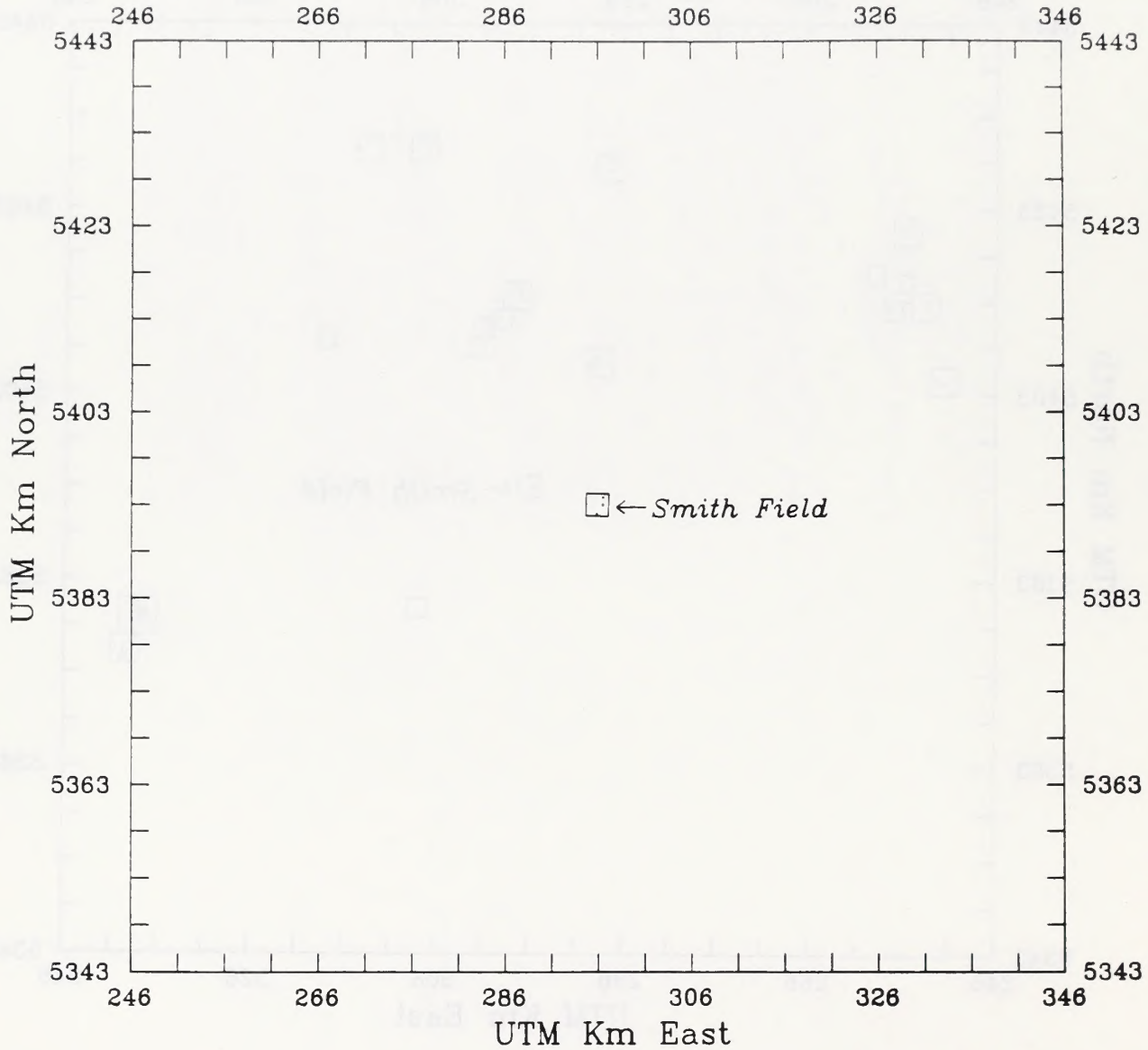


Figure B-39
Smith Field
Locations of Study-Field SO_2 Sources

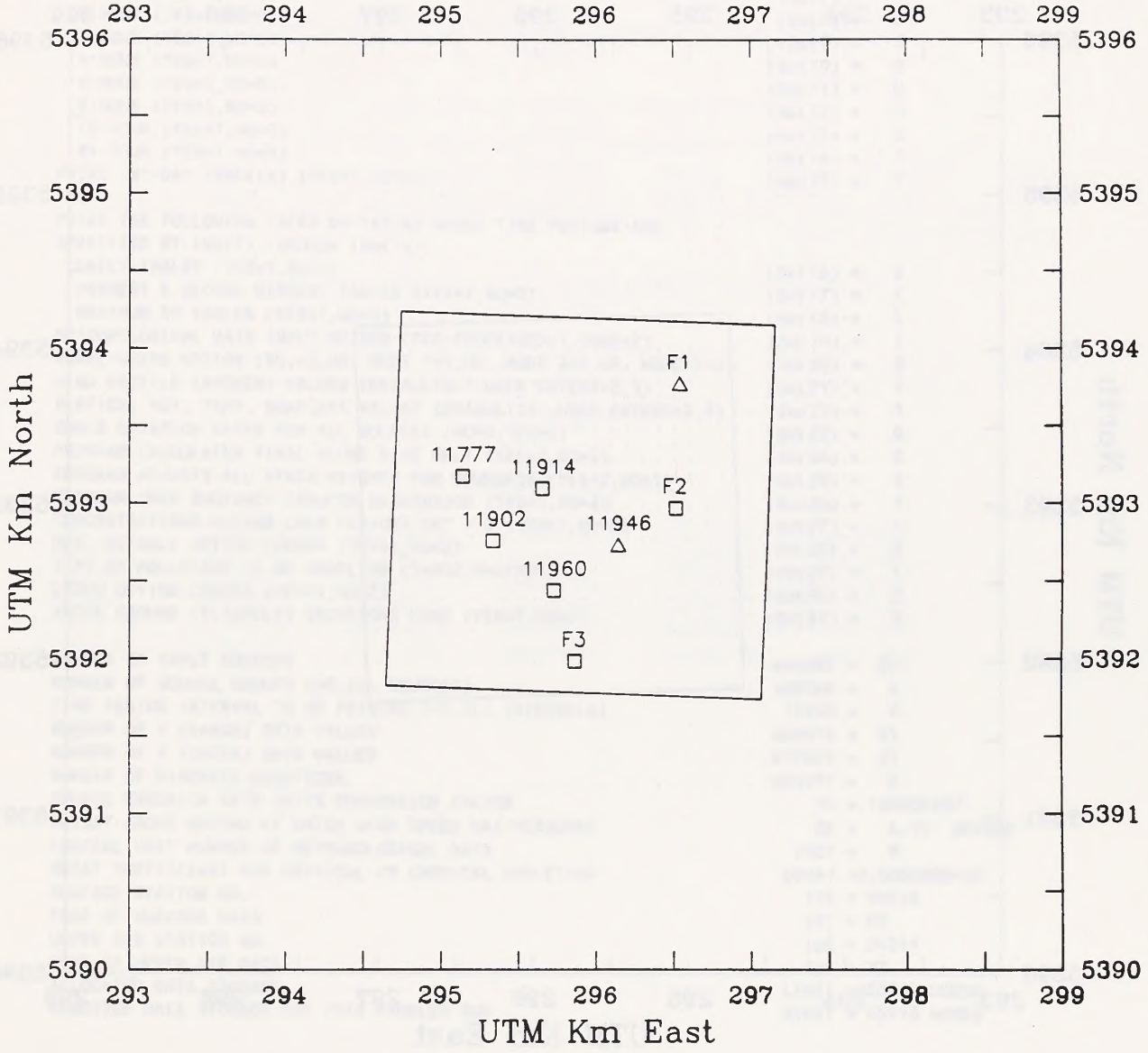
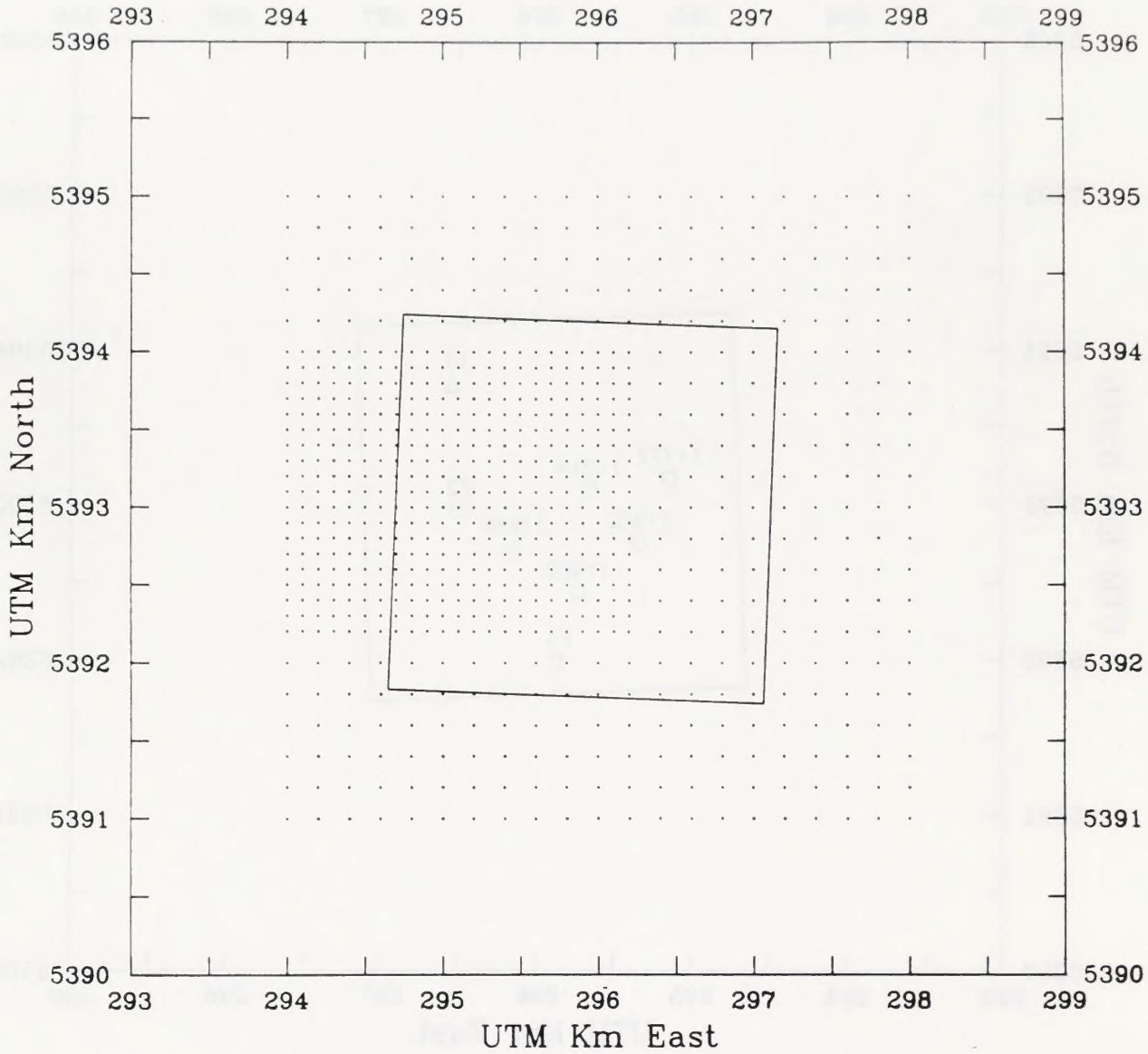


Figure B-40
Smith Field
ISCST Receptor Locations



CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 50
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 4
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 21
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 21
NUMBER OF DISCRETE RECEPTORS	NXYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 45910 WORDS

***   SMITH FIELD SO2 - RECEPTOR GROUP 1   ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 0
```

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

4, 6, 2, 6,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

1,-79999, 90001,-99999, 40001,-79999, 95001,-98999, 99501,-99999, 1,-99999, 40001,-89999,
95001,-98999, 99501,-99999,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** SMITH FIELD SO2 - RECEPTOR GROUP 1 ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

-6000.0, -5800.0, -5600.0, -5400.0, -5200.0, -5000.0, -4800.0, -4600.0, -4400.0, -4200.0,
-4000.0, -3800.0, -3600.0, -3400.0, -3200.0, -3000.0, -2800.0, -2600.0, -2400.0, -2200.0,
-2000.0,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

-9000.0, -8800.0, -8600.0, -8400.0, -8200.0, -8000.0, -7800.0, -7600.0, -7400.0, -7200.0,
-7000.0, -6800.0, -6600.0, -6400.0, -6200.0, -6000.0, -5800.0, -5600.0, -5400.0, -5200.0,
-5000.0,

*** SMITH FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
4387	0	0	0	0.10000E-01	-50475.0	9984.0	0.0	6.71	1000.00	0.42	0.30	0.00	0.00	0.00
4397	0	0	0	0.10000E-01	-50437.0	10791.0	0.0	6.71	1000.00	0.41	0.30	0.00	0.00	0.00
5708	0	0	0	0.29000E-01	-2578.0	24926.0	0.0	6.71	1000.00	0.30	0.30	0.00	0.00	0.00
5959	0	0	0	0.24000E-01	-2983.0	24544.0	0.0	6.71	1000.00	0.24	0.30	0.00	0.00	0.00
43665	0	0	0	0.13500E+00	114.0	11118.0	0.0	6.71	1000.00	1.78	0.30	0.00	0.00	0.00
47749	0	0	0	0.21400E+00	29031.0	10722.0	0.0	6.71	1000.00	2.82	0.30	0.00	0.00	0.00
48824	0	0	0	0.72000E+00	-36677.0	13836.0	0.0	10.67	1000.00	3.10	0.30	0.00	0.00	0.00
49335	0	0	0	0.10000E-02	-37279.0	19101.0	0.0	6.71	1000.00	1.23	0.30	0.00	0.00	0.00
50975	0	0	0	0.87000E-01	-29499.0	21597.0	0.0	6.71	1000.00	2.57	0.30	0.00	0.00	0.00
51777	0	0	0	0.10840E+01	-4945.0	-6654.0	0.0	7.92	1000.00	9.37	0.30	0.00	0.00	0.00
51902	0	0	0	0.10730E+01	-4945.0	-6654.0	0.0	7.92	1000.00	9.36	0.30	0.00	0.00	0.00
51914	0	0	0	0.72300E+00	-4405.0	-7011.0	0.0	7.92	1000.00	3.75	0.30	0.00	0.00	0.00
51946	0	0	0	0.72300E+00	-4404.0	-7054.0	0.0	7.92	1000.00	3.75	0.30	0.00	0.00	0.00
51960	0	0	0	0.27500E+00	-4238.0	-7576.0	0.0	10.97	1000.00	2.03	0.30	0.00	0.00	0.00
68824	0	0	0	0.13500E+00	-36677.0	13836.0	0.0	6.10	1000.00	0.58	0.30	0.00	0.00	0.00
71777	0	0	0	0.40680E+01	-4960.0	-6685.0	0.0	12.19	1000.00	65.03	0.30	0.00	0.00	0.00
71902	0	0	0	0.34270E+01	-4960.0	-6685.0	0.0	12.19	1000.00	65.03	0.30	0.00	0.00	0.00
71914	0	0	0	0.21940E+01	-4393.0	-7010.0	0.0	9.14	1000.00	11.37	0.30	0.00	0.00	0.00
71960	0	0	0	0.24200E+00	-4253.0	-7534.0	0.0	3.96	1000.00	1.78	0.30	0.00	0.00	0.00
81201	0	0	0	0.77600E+00	-3460.0	-6228.0	0.0	6.71	1000.00	5.65	0.30	0.00	0.00	0.00
81202	0	0	0	0.77600E+00	-3493.0	-7014.0	0.0	6.71	1000.00	5.65	0.30	0.00	0.00	0.00
81203	0	0	0	0.77600E+00	-4152.0	-8026.0	0.0	6.71	1000.00	5.65	0.30	0.00	0.00	0.00
86202	0	0	0	0.24830E+01	-3489.0	-7050.0	0.0	6.10	1000.00	19.54	0.30	0.00	0.00	0.00
86203	0	0	0	0.24830E+01	-4126.0	-8004.0	0.0	6.10	1000.00	19.54	0.30	0.00	0.00	0.00
90001	2	0	0	0.31100E-08	-46000.0	19000.0	0.0	7.64	0.00	3000.00	0.00	0.00	0.00	0.00
90007	2	0	0	0.90200E-07	-14000.0	26000.0	0.0	6.64	0.00	3000.00	0.00	0.00	0.00	0.00
90008	2	0	0	0.19000E-06	6000.0	28000.0	0.0	9.56	0.00	3000.00	0.00	0.00	0.00	0.00
90009	2	0	0	0.28300E-07	12000.0	28000.0	0.0	5.54	0.00	3000.00	0.00	0.00	0.00	0.00
90011	2	0	0	0.16700E-06	-4000.0	12000.0	0.0	7.24	0.00	3000.00	0.00	0.00	0.00	0.00
90012	2	0	0	0.66000E-07	-2000.0	10000.0	0.0	9.44	0.00	2000.00	0.00	0.00	0.00	0.00
90013	2	0	0	0.18800E-06	0.0	9000.0	0.0	9.36	0.00	2000.00	0.00	0.00	0.00	0.00
90014	2	0	0	0.19000E-07	1000.0	7000.0	0.0	7.08	0.00	2000.00	0.00	0.00	0.00	0.00
90015	2	0	0	0.13000E-07	17000.0	8000.0	0.0	6.53	0.00	2000.00	0.00	0.00	0.00	0.00
90016	2	0	0	0.38800E-06	7000.0	-21000.0	0.0	8.39	0.00	2000.00	0.00	0.00	0.00	0.00
90017	2	0	0	0.19400E-08	36000.0	-23000.0	0.0	8.56	0.00	4000.00	0.00	0.00	0.00	0.00
90018	2	0	0	0.16700E-08	38000.0	-26000.0	0.0	8.52	0.00	3000.00	0.00	0.00	0.00	0.00
95002	2	0	0	0.32200E-07	-48000.0	11000.0	0.0	7.92	0.00	3000.00	0.00	0.00	0.00	0.00
95003	2	0	0	0.76700E-08	-45000.0	13000.0	0.0	4.61	0.00	3000.00	0.00	0.00	0.00	0.00
95004	2	0	0	0.41000E-07	-42000.0	15000.0	0.0	10.07	0.00	2000.00	0.00	0.00	0.00	0.00

*** SMITH FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
95005	2	0	0	0.52900E-06	-44000.0	11000.0	0.0	9.30	0.00	2000.00	0.00	0.00	0.00	0.00
95006	2	0	0	0.80900E-07	-50000.0	3000.0	0.0	9.94	0.00	3000.00	0.00	0.00	0.00	0.00
95008	2	0	0	0.29500E-06	6000.0	28000.0	0.0	12.90	0.00	3000.00	0.00	0.00	0.00	0.00
95009	2	0	0	0.15800E-07	12000.0	28000.0	0.0	5.08	0.00	3000.00	0.00	0.00	0.00	0.00
95010	2	0	0	0.28100E-06	-13000.0	5000.0	0.0	10.32	0.00	3000.00	0.00	0.00	0.00	0.00
95011	2	0	0	0.57800E-07	-4000.0	12000.0	0.0	8.86	0.00	3000.00	0.00	0.00	0.00	0.00
95012	2	0	0	0.75400E-06	-2000.0	10000.0	0.0	16.04	0.00	2000.00	0.00	0.00	0.00	0.00
95013	2	0	0	0.75000E-07	0.0	9000.0	0.0	9.72	0.00	2000.00	0.00	0.00	0.00	0.00
95015	2	0	0	0.65000E-08	17000.0	8000.0	0.0	7.46	0.00	2000.00	0.00	0.00	0.00	0.00
95017	2	0	0	0.41200E-08	36000.0	-23000.0	0.0	9.99	0.00	4000.00	0.00	0.00	0.00	0.00
95018	2	0	0	0.15600E-08	38000.0	-26000.0	0.0	8.35	0.00	3000.00	0.00	0.00	0.00	0.00

Stanley Field

Figure B-41
Stanley Field
Locations of Existing SO_2 Point and Area Sources

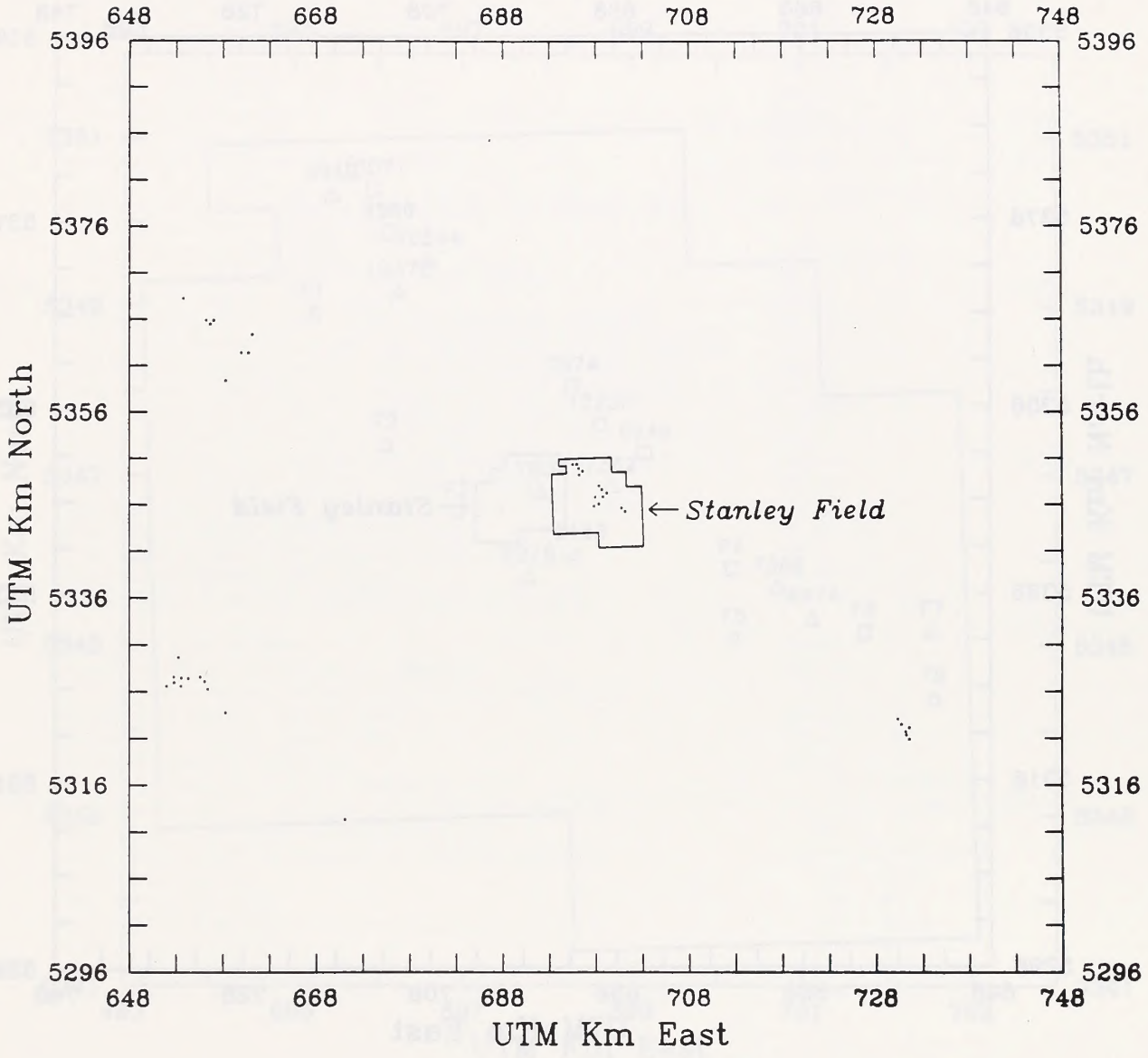


Figure B-42
Stanley Field
Locations of Future SO_2 Point and Area Sources

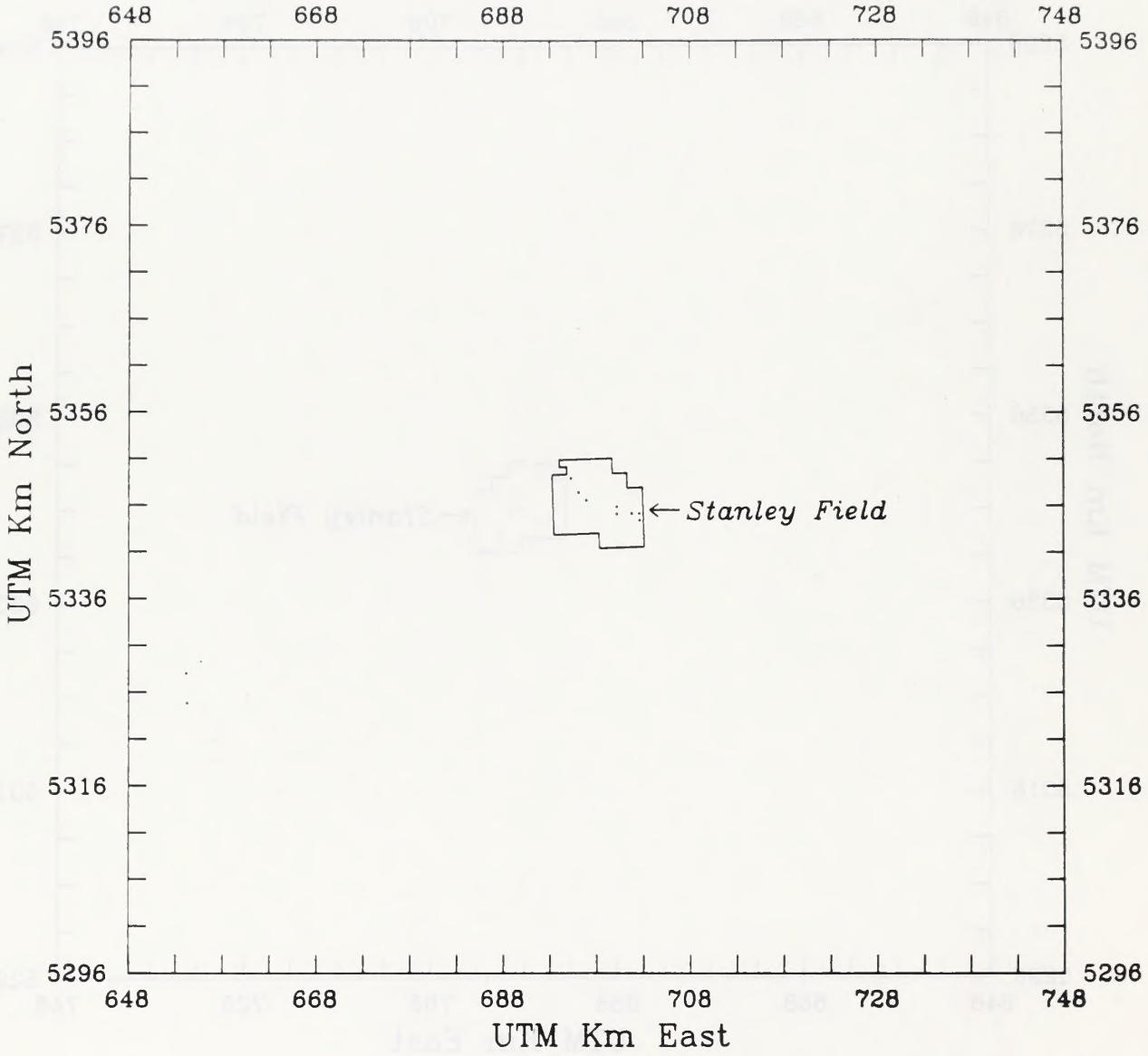


Figure B-43
Stanley Field
Locations of Study-Field SO_2 Sources

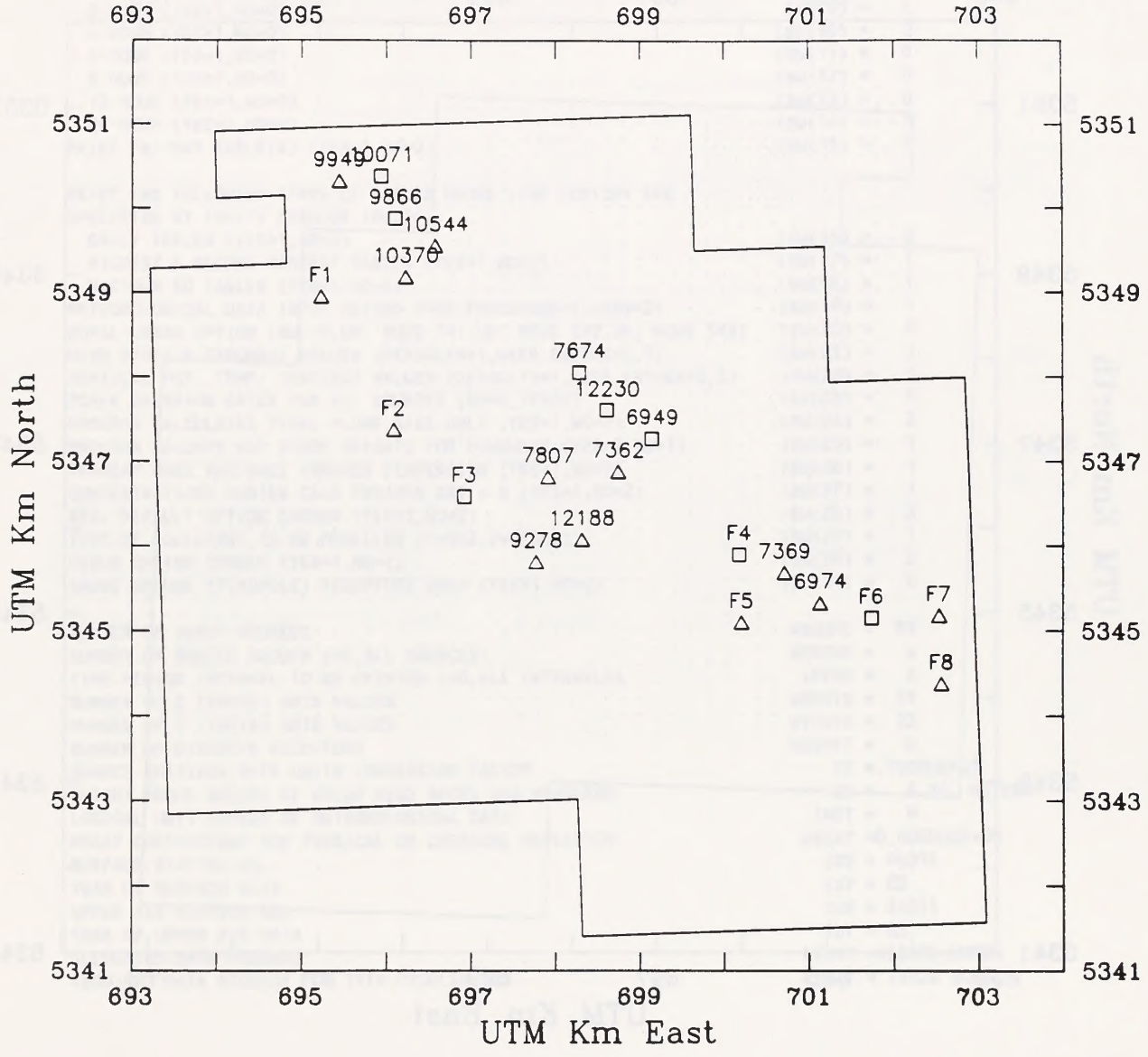
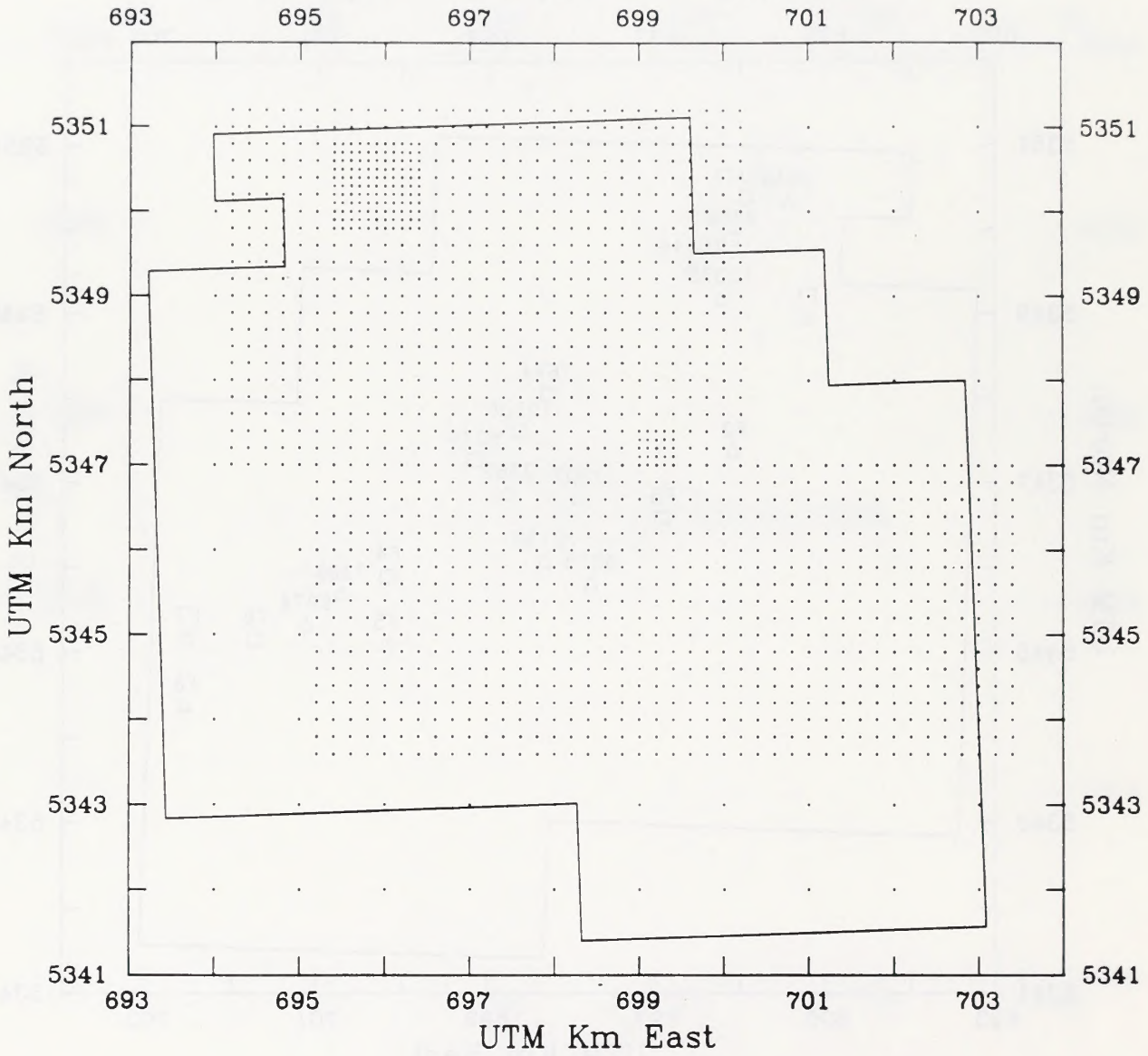


Figure B-44
Stanley Field
ISCST Receptor Locations



CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 89
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 4
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 31
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 22
NUMBER OF DISCRETE RECEPTORS	NXYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 73020 WORDS

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 0
```

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

4, 6, 2, 6,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

1,-79999, 90001,-99999, 40001,-79999, 95001,-98999, 99501,-99999, 1,-99999, 40001,-89999,
95001,-98999, 99501,-99999,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** STANLEY FIELD SO2 - RECEPTOR GROUP 1 ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

-5800.0, -5600.0, -5400.0, -5200.0, -5000.0, -4800.0, -4600.0, -4400.0, -4200.0, -4000.0,
-3800.0, -3600.0, -3400.0, -3200.0, -3000.0, -2800.0, -2600.0, -2400.0, -2200.0, -2000.0,
-1800.0, -1600.0, -1400.0, -1200.0, -1000.0, -800.0, -600.0, -400.0, -200.0, 0.0,
200.0,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

47000.0, 47200.0, 47400.0, 47600.0, 47800.0, 48000.0, 48200.0, 48400.0, 48600.0, 48800.0,
49000.0, 49200.0, 49400.0, 49600.0, 49800.0, 50000.0, 50200.0, 50400.0, 50600.0, 50800.0,
51000.0, 51200.0,

*** STANLEY FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
876	0	0	0	0.27100E+00	-43339.0	65484.0	0.0	7.62	1000.00	5.31	0.30	0.00	0.00	0.00
1092	0	0	0	0.19400E+00	-43346.0	65484.0	0.0	7.62	1000.00	3.81	0.30	0.00	0.00	0.00
1253	0	0	0	0.22500E+00	-43339.0	65484.0	0.0	7.62	1000.00	4.40	0.30	0.00	0.00	0.00
20876	0	0	0	0.23000E-01	-43339.0	65484.0	0.0	0.30	1000.00	0.45	0.30	0.00	0.00	0.00
21092	0	0	0	0.24000E-01	-43346.0	65484.0	0.0	0.30	1000.00	0.46	0.30	0.00	0.00	0.00
21253	0	0	0	0.32000E-01	-43339.0	65484.0	0.0	0.30	1000.00	0.63	0.30	0.00	0.00	0.00
46823	0	0	0	0.26000E+00	-46239.0	68226.0	0.0	6.71	1000.00	5.09	0.30	0.00	0.00	0.00
46949	0	0	0	0.59000E+00	-831.0	47441.0	0.0	9.45	1000.00	9.23	0.30	0.00	0.00	0.00
46949	0	0	0	0.59000E+00	-858.0	47271.0	0.0	6.71	1000.00	9.23	0.30	0.00	0.00	0.00
46974	0	0	0	0.32300E+00	1124.0	45331.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
46974	0	0	0	0.32300E+00	1173.0	45368.0	0.0	8.53	1000.00	4.92	0.30	0.00	0.00	0.00
47362	0	0	0	0.99000E-01	-1263.0	46880.0	0.0	6.71	1000.00	1.84	0.30	0.00	0.00	0.00
47362	0	0	0	0.99000E-01	-1305.0	46866.0	0.0	4.88	1000.00	1.84	0.30	0.00	0.00	0.00
47369	0	0	0	0.20700E+00	697.0	45703.0	0.0	6.71	1000.00	2.38	0.30	0.00	0.00	0.00
47369	0	0	0	0.20700E+00	707.0	45687.0	0.0	6.71	1000.00	2.38	0.30	0.00	0.00	0.00
47674	0	0	0	0.14300E+00	-1718.0	48056.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
47674	0	0	0	0.14300E+00	-1748.0	48037.0	0.0	7.92	1000.00	3.74	0.30	0.00	0.00	0.00
47699	0	0	0	0.96000E-01	-41707.0	59392.0	0.0	6.71	1000.00	2.09	0.30	0.00	0.00	0.00
47807	0	0	0	0.34900E+00	-2089.0	46820.0	0.0	6.71	1000.00	6.41	0.30	0.00	0.00	0.00
47807	0	0	0	0.34900E+00	-2121.0	46848.0	0.0	5.18	1000.00	6.41	0.30	0.00	0.00	0.00
48529	0	0	0	0.97000E-01	-39201.0	62386.0	0.0	6.71	1000.00	2.12	0.30	0.00	0.00	0.00
49146	0	0	0	0.23400E+00	-40042.0	62378.0	0.0	6.71	1000.00	5.11	0.30	0.00	0.00	0.00
49278	0	0	0	0.47700E+00	-2232.0	45814.0	0.0	6.71	1000.00	7.28	0.30	0.00	0.00	0.00
49278	0	0	0	0.47700E+00	-2235.0	45741.0	0.0	9.14	1000.00	7.28	0.30	0.00	0.00	0.00
49866	0	0	0	0.92000E+00	-3895.0	49880.0	0.0	9.14	1000.00	12.40	0.30	0.00	0.00	0.00
49866	0	0	0	0.92000E+00	-3907.0	49855.0	0.0	10.36	1000.00	12.40	0.30	0.00	0.00	0.00
49949	0	0	0	0.39900E+00	-4558.0	50322.0	0.0	6.71	1000.00	6.09	0.30	0.00	0.00	0.00
49949	0	0	0	0.39900E+00	-4579.0	50352.0	0.0	8.84	1000.00	6.09	0.30	0.00	0.00	0.00
50071	0	0	0	0.86700E+00	-4060.0	50380.0	0.0	9.14	1000.00	11.98	0.30	0.00	0.00	0.00
50071	0	0	0	0.86700E+00	-4072.0	50341.0	0.0	4.88	1000.00	11.98	0.30	0.00	0.00	0.00
50370	0	0	0	0.44000E+00	-3772.0	49188.0	0.0	6.71	1000.00	5.34	0.30	0.00	0.00	0.00
50370	0	0	0	0.44000E+00	-3791.0	49231.0	0.0	9.45	1000.00	5.34	0.30	0.00	0.00	0.00
50544	0	0	0	0.12200E+00	-3426.0	49557.0	0.0	6.71	1000.00	1.89	0.30	0.00	0.00	0.00
50544	0	0	0	0.12200E+00	-3473.0	49523.0	0.0	7.92	1000.00	1.89	0.30	0.00	0.00	0.00
51410	0	0	0	0.84200E+00	31589.0	20916.0	0.0	6.71	1000.00	11.78	0.30	0.00	0.00	0.00
51802	0	0	0	0.16900E+00	-41717.0	23710.0	0.0	6.71	1000.00	6.57	0.30	0.00	0.00	0.00
51948	0	0	0	0.11300E+00	-44437.0	27542.0	0.0	6.71	1000.00	4.40	0.30	0.00	0.00	0.00
52019	0	0	0	0.12000E-01	-28943.0	12317.0	0.0	6.71	1000.00	2.92	0.30	0.00	0.00	0.00
52133	0	0	0	0.59800E+00	31214.0	21352.0	0.0	6.10	1000.00	5.58	0.30	0.00	0.00	0.00

*** STANLEY FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
52188	0	0	0	0.31700E+00	-1639.0	46043.0	0.0	10.06	1000.00	4.84	0.30	0.00	0.00	0.00
52188	0	0	0	0.31700E+00	-1691.0	46078.0	0.0	6.71	1000.00	4.84	0.30	0.00	0.00	0.00
52230	0	0	0	0.19100E+00	-1391.0	47609.0	0.0	6.71	1000.00	2.92	0.30	0.00	0.00	0.00
52230	0	0	0	0.19100E+00	-1779.0	47256.0	0.0	9.75	1000.00	2.92	0.30	0.00	0.00	0.00
52233	0	0	0	0.62200E+00	31154.0	21704.0	0.0	6.10	1000.00	5.58	0.30	0.00	0.00	0.00
52265	0	0	0	0.63800E+00	30723.0	22494.0	0.0	6.10	1000.00	5.58	0.30	0.00	0.00	0.00
52338	0	0	0	0.54000E+00	30339.0	23065.0	0.0	9.14	1000.00	5.58	0.30	0.00	0.00	0.00
66949	0	0	0	0.27100E+00	-821.0	47399.0	0.0	9.14	1000.00	4.24	0.30	0.00	0.00	0.00
66949	0	0	0	0.27100E+00	-858.0	47271.0	0.0	3.05	1000.00	4.24	0.30	0.00	0.00	0.00
67674	0	0	0	0.32000E-01	-1718.0	48056.0	0.0	3.05	1000.00	0.84	0.30	0.00	0.00	0.00
67674	0	0	0	0.32000E-01	-1741.0	48008.0	0.0	7.62	1000.00	0.84	0.30	0.00	0.00	0.00
68529	0	0	0	0.11400E+00	-39201.0	62386.0	0.0	3.05	1000.00	2.48	0.30	0.00	0.00	0.00
68999	0	0	0	0.22300E+00	-38852.0	64362.0	0.0	3.05	1000.00	4.86	0.30	0.00	0.00	0.00
69866	0	0	0	0.60500E+00	-3895.0	49880.0	0.0	9.14	1000.00	8.15	0.30	0.00	0.00	0.00
69866	0	0	0	0.60500E+00	-3934.0	49877.0	0.0	8.53	1000.00	8.15	0.30	0.00	0.00	0.00
69875	0	0	0	0.88000E-01	-46819.0	29656.0	0.0	3.05	1000.00	0.82	0.30	0.00	0.00	0.00
70071	0	0	0	0.35000E+00	-4060.0	50380.0	0.0	9.14	1000.00	4.84	0.30	0.00	0.00	0.00
70071	0	0	0	0.35000E+00	-4093.0	50372.0	0.0	8.23	1000.00	4.84	0.30	0.00	0.00	0.00
71017	0	0	0	0.19500E+00	-46508.0	26594.0	0.0	3.05	1000.00	6.80	0.30	0.00	0.00	0.00
71063	0	0	0	0.60000E-02	-46455.0	27430.0	0.0	3.05	1000.00	0.29	0.30	0.00	0.00	0.00
71103	0	0	0	0.45000E-01	-45711.0	27419.0	0.0	3.05	1000.00	1.83	0.30	0.00	0.00	0.00
71194	0	0	0	0.80000E-02	-47241.0	26979.0	0.0	3.05	1000.00	0.37	0.30	0.00	0.00	0.00
71353	0	0	0	0.71000E-01	-47288.0	27558.0	0.0	3.05	1000.00	3.33	0.30	0.00	0.00	0.00
71410	0	0	0	0.10540E+01	31589.0	20916.0	0.0	3.05	1000.00	14.75	0.30	0.00	0.00	0.00
71647	0	0	0	0.60000E-02	-48050.0	26587.0	0.0	3.05	1000.00	0.43	0.30	0.00	0.00	0.00
71853	0	0	0	0.16900E+00	-43612.0	26269.0	0.0	3.05	1000.00	1.74	0.30	0.00	0.00	0.00
72019	0	0	0	0.48000E-01	-28943.0	12317.0	0.0	0.30	1000.00	11.69	0.30	0.00	0.00	0.00
72022	0	0	0	0.17000E-01	-43978.0	27084.0	0.0	3.05	1000.00	0.76	0.30	0.00	0.00	0.00
72133	0	0	0	0.88430E+01	31214.0	21352.0	0.0	9.14	1000.00	82.48	0.30	0.00	0.00	0.00
72230	0	0	0	0.58200E+00	-1391.0	47609.0	0.0	3.05	1000.00	8.88	0.30	0.00	0.00	0.00
72230	0	0	0	0.58200E+00	-1760.0	47281.0	0.0	8.53	1000.00	8.88	0.30	0.00	0.00	0.00
72233	0	0	0	0.84670E+01	31154.0	21704.0	0.0	9.14	1000.00	75.94	0.30	0.00	0.00	0.00
72265	0	0	0	0.94840E+01	30723.0	22494.0	0.0	9.14	1000.00	82.94	0.30	0.00	0.00	0.00
72337	0	0	0	0.15940E+01	31542.0	22123.0	0.0	9.14	1000.00	16.18	0.30	0.00	0.00	0.00
72338	0	0	0	0.10036E+02	30339.0	23065.0	0.0	9.14	1000.00	103.71	0.30	0.00	0.00	0.00
81301	0	0	0	0.38900E+00	-4766.0	48953.0	0.0	6.71	1000.00	5.80	0.30	0.00	0.00	0.00
81302	0	0	0	0.38900E+00	-3912.0	47373.0	0.0	6.71	1000.00	5.80	0.30	0.00	0.00	0.00
81303	0	0	0	0.38900E+00	-3085.0	46569.0	0.0	6.71	1000.00	5.80	0.30	0.00	0.00	0.00
81304	0	0	0	0.38900E+00	155.0	45906.0	0.0	6.71	1000.00	5.80	0.30	0.00	0.00	0.00

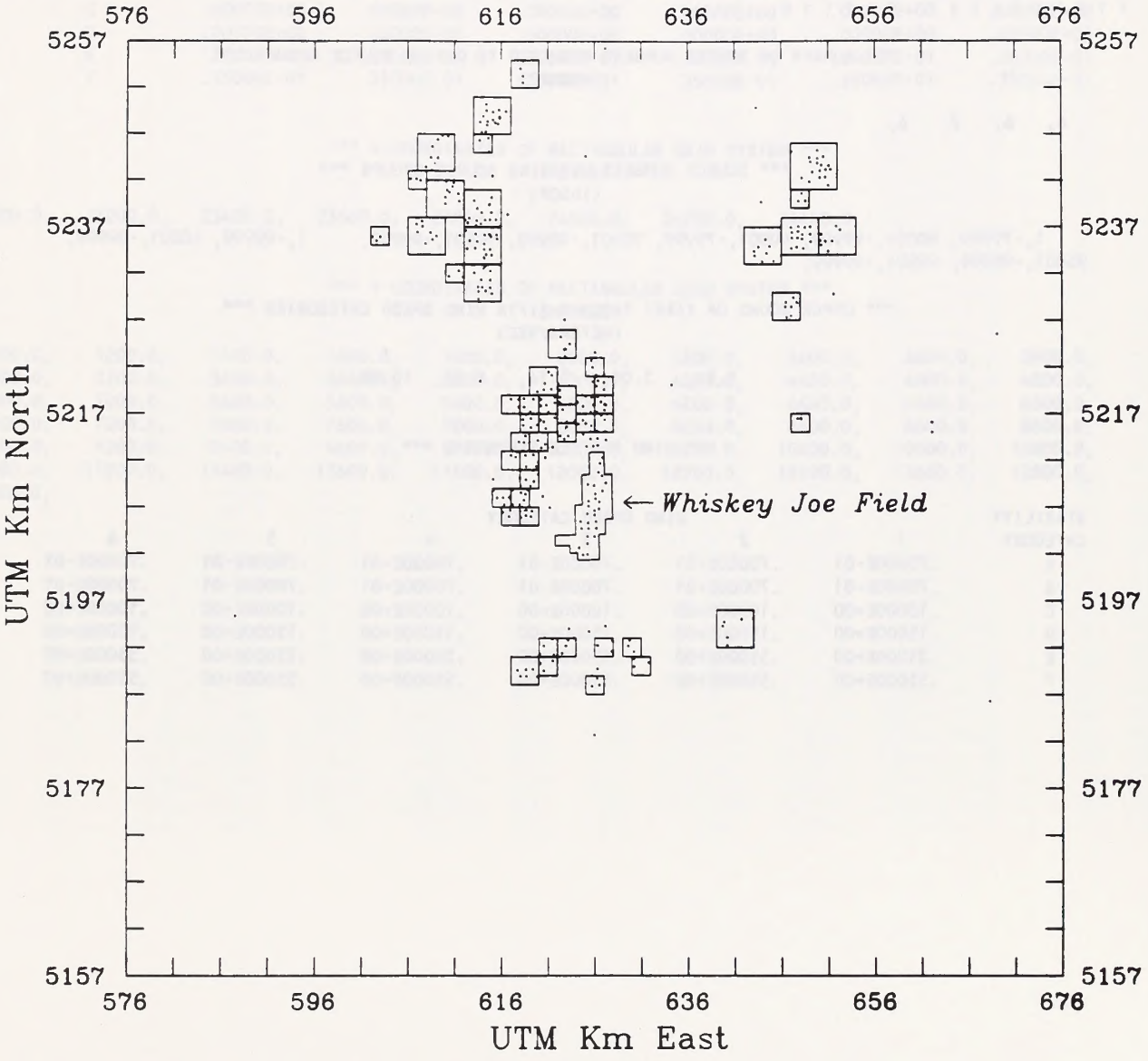
*** STANLEY FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
81305	0	0 0	0	0.38900E+00	200.0	45099.0	0.0	6.71	1000.00	5.80	0.30	0.00	0.00	0.00
81306	0	0 0	0	0.38900E+00	1721.0	45142.0	0.0	6.71	1000.00	5.80	0.30	0.00	0.00	0.00
81307	0	0 0	0	0.38900E+00	2530.0	45179.0	0.0	6.71	1000.00	5.80	0.30	0.00	0.00	0.00
81308	0	0 0	0	0.38900E+00	2560.0	44375.0	0.0	6.71	1000.00	5.80	0.30	0.00	0.00	0.00
85801	0	0 0	0	0.97000E-01	-44304.0	29263.0	0.0	3.05	1000.00	6.10	0.30	0.00	0.00	0.00
85802	0	0 0	0	0.88000E-01	-45870.0	28018.0	0.0	3.05	1000.00	0.82	0.30	0.00	0.00	0.00
85901	0	0 0	0	0.36000E-01	-45776.0	24805.0	0.0	0.30	1000.00	26.72	0.30	0.00	0.00	0.00
86303	0	0 0	0	0.36800E+00	-3071.0	46599.0	0.0	3.05	1000.00	5.39	0.30	0.00	0.00	0.00
86304	0	0 0	0	0.36800E+00	189.0	45896.0	0.0	3.05	1000.00	5.39	0.30	0.00	0.00	0.00
86306	0	0 0	0	0.36800E+00	1749.0	45160.0	0.0	3.05	1000.00	5.39	0.30	0.00	0.00	0.00
99001	0	0 0	0	0.13530E+03	-45900.0	62600.0	0.0	30.50	782.00	7.70	1.70	0.00	0.00	0.00

Whiskey Joe Field

Figure B-45
Whiskey Joe Field
Locations of Existing SO_2 Point and Area Sources



*** WHISKEY JOE FIELD SO2 - RECEPTOR GROUP 1 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 0
```

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

4, 6, 2, 6,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

1,-79999, 90001,-99999, 40001,-79999, 95001,-98999, 99501,-99999, 1,-99999, 40001,-89999,
95001,-98999, 99501,-99999,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** WHISKEY JOE FIELD SO2 - RECEPTOR GROUP 1 ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

23000.0, 23200.0, 23400.0, 23600.0, 23800.0, 24000.0, 24200.0, 24400.0,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

1000.0, 1200.0, 1400.0, 1600.0, 1800.0, 2000.0, 2200.0, 2400.0, 2600.0, 2800.0,
3000.0, 3200.0, 3400.0, 3600.0, 3800.0, 4000.0, 4200.0, 4400.0, 4600.0, 4800.0,
5000.0, 5200.0, 5400.0, 5600.0, 5800.0, 6000.0, 6200.0, 6400.0, 6600.0, 6800.0,
7000.0, 7200.0, 7400.0, 7600.0, 7800.0, 8000.0, 8200.0, 8400.0, 8600.0, 8800.0,
9000.0, 9200.0, 9400.0, 9600.0, 9800.0, 10000.0, 10200.0, 10400.0, 10600.0, 10800.0,
11000.0, 11200.0, 11400.0, 11600.0, 11800.0, 12000.0, 12200.0, 12400.0, 12600.0, 12800.0,
13000.0,

*** WHISKEY JOE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	AK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
3146	0	0	0	0.26000E-01	23719.0	-6972.0	0.0	6.71	1000.00	10.60	0.30	0.00	0.00	0.00
4008	0	0	0	0.30000E-02	25379.0	-6280.0	0.0	6.71	1000.00	1.11	0.30	0.00	0.00	0.00
5564	0	0	0	0.20000E-02	27136.0	-5713.0	0.0	6.71	1000.00	0.62	0.30	0.00	0.00	0.00
5609	0	0	0	0.80000E-02	23251.0	-5988.0	0.0	6.71	1000.00	11.88	0.30	0.00	0.00	0.00
45168	0	0	0	0.19500E+00	13191.0	42464.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
46602	0	0	0	0.96000E-01	20388.0	8153.0	0.0	6.71	1000.00	2.96	0.30	0.00	0.00	0.00
46899	0	0	0	0.49000E-01	26854.0	8681.0	0.0	8.84	1000.00	3.72	0.30	0.00	0.00	0.00
46918	0	0	0	0.17600E+00	17962.0	10150.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46959	0	0	0	0.34700E+00	24971.0	44649.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
47012	0	0	0	0.57000E-01	21191.0	6938.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47045	0	0	0	0.54000E-01	27129.0	9532.0	0.0	8.84	1000.00	3.72	0.30	0.00	0.00	0.00
47046	0	0	0	0.32000E-01	26117.0	7881.0	0.0	8.84	1000.00	4.06	0.30	0.00	0.00	0.00
47070	0	0	0	0.34700E+00	13625.0	28953.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
47120	0	0	0	0.12900E+00	25248.0	9380.0	0.0	7.62	1000.00	3.72	0.30	0.00	0.00	0.00
47145	0	0	0	0.87000E-01	26717.0	10373.0	0.0	8.84	1000.00	3.72	0.30	0.00	0.00	0.00
47280	0	0	0	0.30900E+00	25514.0	14299.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
47284	0	0	0	0.14100E+00	25783.0	20458.0	0.0	6.71	1000.00	5.86	0.30	0.00	0.00	0.00
47438	0	0	0	0.25000E-01	25335.0	7122.0	0.0	8.23	1000.00	3.72	0.30	0.00	0.00	0.00
47459	0	0	0	0.76000E-01	26051.0	8436.0	0.0	8.84	1000.00	3.72	0.30	0.00	0.00	0.00
47510	0	0	0	0.31900E+00	20708.0	12284.0	0.0	6.71	1000.00	10.19	0.30	0.00	0.00	0.00
47514	0	0	0	0.92000E-01	24753.0	14740.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
47523	0	0	0	0.27800E+00	25514.0	14299.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
47562	0	0	0	0.11900E+00	24420.0	5475.0	0.0	6.71	1000.00	7.58	0.30	0.00	0.00	0.00
47645	0	0	0	0.32300E+00	22106.0	20228.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47675	0	0	0	0.86000E-01	26078.0	23573.0	0.0	6.71	1000.00	0.95	0.30	0.00	0.00	0.00
47775	0	0	0	0.14000E+00	25840.0	13482.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47776	0	0	0	0.18500E+00	26748.0	12278.0	0.0	8.84	1000.00	3.43	0.30	0.00	0.00	0.00
47813	0	0	0	0.38400E+00	27159.0	14195.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48173	0	0	0	0.16000E-01	25260.0	5277.0	0.0	7.62	1000.00	3.72	0.30	0.00	0.00	0.00
48202	0	0	0	0.45700E+00	51591.0	29807.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
48214	0	0	0	0.30000E-01	26409.0	6749.0	0.0	8.53	1000.00	3.83	0.30	0.00	0.00	0.00
48254	0	0	0	0.72000E-01	21479.0	13425.0	0.0	6.71	1000.00	2.77	0.30	0.00	0.00	0.00
48330	0	0	0	0.16600E+00	26348.0	13569.0	0.0	6.71	1000.00	4.55	0.30	0.00	0.00	0.00
48333	0	0	0	0.82000E-01	25129.0	13464.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
48403	0	0	0	0.49100E+00	62049.0	16072.0	0.0	6.71	1000.00	4.57	0.30	0.00	0.00	0.00
48432	0	0	0	0.61000E-01	25870.0	9316.0	0.0	5.18	1000.00	4.96	0.30	0.00	0.00	0.00
48437	0	0	0	0.33000E-01	25133.0	6201.0	0.0	8.84	1000.00	3.72	0.30	0.00	0.00	0.00
48726	0	0	0	0.10510E+01	43298.0	49845.0	0.0	7.62	1000.00	9.30	0.30	0.00	0.00	0.00
48827	0	0	0	0.12000E-01	25930.0	6659.0	0.0	8.53	1000.00	3.72	0.30	0.00	0.00	0.00

*** WHISKEY JOE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
48948	0	0	0	0.53000E-01	25247.0	4717.0	0.0	4.88	1000.00	10.61	0.30	0.00	0.00	0.00
48958	0	0	0	0.59000E-01	24585.0	4647.0	0.0	8.84	1000.00	3.72	0.30	0.00	0.00	0.00
49389	0	0	0	0.40000E-02	26145.0	4646.0	0.0	8.84	1000.00	3.72	0.30	0.00	0.00	0.00
49594	0	0	0	0.69000E-01	15056.0	42501.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
49609	0	0	0	0.49000E-01	26372.0	10682.0	0.0	7.62	1000.00	3.10	0.30	0.00	0.00	0.00
49641	0	0	0	0.66100E+00	16660.0	38360.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49646	0	0	0	0.50000E-02	25978.0	6068.0	0.0	9.75	1000.00	4.96	0.30	0.00	0.00	0.00
49815	0	0	0	0.38000E-01	62059.0	14971.0	0.0	6.71	1000.00	0.35	0.30	0.00	0.00	0.00
49862	0	0	0	0.35600E+00	22762.0	27079.0	0.0	6.71	1000.00	8.10	0.30	0.00	0.00	0.00
49900	0	0	0	0.66100E+00	11543.0	36041.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
50120	0	0	0	0.41000E-01	15099.0	10006.0	0.0	6.71	1000.00	2.34	0.30	0.00	0.00	0.00
50191	0	0	0	0.40000E-02	25174.0	3744.0	0.0	10.06	1000.00	0.49	0.30	0.00	0.00	0.00
50267	0	0	0	0.22000E-01	25186.0	1898.0	0.0	9.75	1000.00	2.57	0.30	0.00	0.00	0.00
50306	0	0	0	0.14600E+00	26541.0	7530.0	0.0	8.53	1000.00	9.30	0.30	0.00	0.00	0.00
50516	0	0	0	0.80000E-02	24649.0	1826.0	0.0	9.14	1000.00	0.53	0.30	0.00	0.00	0.00
50585	0	0	0	0.11000E-01	24351.0	2646.0	0.0	9.14	1000.00	2.05	0.30	0.00	0.00	0.00
50843	0	0	0	0.50000E-02	25167.0	3028.0	0.0	9.14	1000.00	0.86	0.30	0.00	0.00	0.00
51417	0	0	0	0.50000E-02	-12449.0	-4676.0	0.0	6.71	1000.00	1.90	0.30	0.00	0.00	0.00
51581	0	0	0	0.58000E-01	26622.0	11664.0	0.0	6.71	1000.00	2.48	0.30	0.00	0.00	0.00
51865	0	0	0	0.65300E+00	27132.0	56252.0	0.0	6.71	1000.00	8.68	0.30	0.00	0.00	0.00
51944	0	0	0	0.50000E-02	25293.0	7578.0	0.0	8.23	1000.00	4.96	0.30	0.00	0.00	0.00
52134	0	0	0	0.30000E-02	25964.0	-17366.0	0.0	9.14	1000.00	1.46	0.30	0.00	0.00	0.00
52178	0	0	0	0.60000E-02	26333.0	-10272.0	0.0	3.05	1000.00	3.32	0.30	0.00	0.00	0.00
65168	0	0	0	0.89000E-01	13191.0	42464.0	0.0	3.05	1000.00	1.72	0.30	0.00	0.00	0.00
66602	0	0	0	0.72500E+00	20388.0	8153.0	0.0	0.30	1000.00	22.33	0.30	0.00	0.00	0.00
66959	0	0	0	0.83650E+01	24971.0	44649.0	0.0	6.10	1000.00	55.41	0.30	0.00	0.00	0.00
67012	0	0	0	0.26000E+00	21191.0	6938.0	0.0	3.05	1000.00	16.98	0.30	0.00	0.00	0.00
67070	0	0	0	0.42000E-01	13625.0	28953.0	0.0	3.05	1000.00	0.75	0.30	0.00	0.00	0.00
67514	0	0	0	0.30000E-02	24753.0	14740.0	0.0	0.30	1000.00	0.09	0.30	0.00	0.00	0.00
67645	0	0	0	0.10000E-02	22106.0	20228.0	0.0	3.05	1000.00	0.03	0.30	0.00	0.00	0.00
67813	0	0	0	0.78000E-01	27159.0	14195.0	0.0	3.05	1000.00	1.88	0.30	0.00	0.00	0.00
68075	0	0	0	0.17000E-01	13697.0	20486.0	0.0	3.05	1000.00	1.43	0.30	0.00	0.00	0.00
68202	0	0	0	0.17020E+01	51591.0	29807.0	0.0	0.30	1000.00	13.84	0.30	0.00	0.00	0.00
68275	0	0	0	0.59900E+00	69042.0	25493.0	0.0	3.66	1000.00	6.45	0.30	0.00	0.00	0.00
68726	0	0	0	0.97100E+00	43298.0	49845.0	0.0	3.05	1000.00	8.60	0.30	0.00	0.00	0.00
69830	0	0	0	0.11400E+00	68211.0	-13710.0	0.0	3.05	1000.00	3.88	0.30	0.00	0.00	0.00
70516	0	0	0	0.68000E-01	24654.0	1786.0	0.0	0.30	1000.00	4.33	0.30	0.00	0.00	0.00
72134	0	0	0	0.60000E-02	25964.0	-17366.0	0.0	1.83	1000.00	3.30	0.30	0.00	0.00	0.00
72178	0	0	0	0.10000E-01	26333.0	-10272.0	0.0	1.83	1000.00	5.58	0.30	0.00	0.00	0.00

*** WHISKEY JOE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
80101	0	0	0	0.10000E-02	27406.0	10124.0	0.0	6.71	1000.00	3.13	0.30	0.00	0.00	0.00
80102	0	0	0	0.49000E-01	27465.0	7714.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80103	0	0	0	0.10000E-02	26661.0	7697.0	0.0	6.71	1000.00	3.13	0.30	0.00	0.00	0.00
80104	0	0	0	0.49000E-01	24246.0	6832.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80105	0	0	0	0.49000E-01	23716.0	3251.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80106	0	0	0	0.10000E-02	23716.0	3251.0	0.0	6.71	1000.00	3.13	0.30	0.00	0.00	0.00
80107	0	0	0	0.49000E-01	23751.0	2450.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
85107	0	0	0	0.34000E-01	23715.0	2442.0	0.0	3.05	1000.00	19.25	0.30	0.00	0.00	0.00
80108	0	0	0	0.49000E-01	26715.0	4481.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80109	0	0	0	0.49000E-01	26145.0	3340.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80110	0	0	0	0.49000E-01	26163.0	2535.0	0.0	6.71	1000.00	3.90	0.30	0.00	0.00	0.00
80206	0	0	0	0.40700E+00	21574.0	19243.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
80213	0	0	0	0.24100E+00	23226.0	18079.0	0.0	6.71	1000.00	7.76	0.30	0.00	0.00	0.00
80214	0	0	0	0.40700E+00	22828.0	17255.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
80216	0	0	0	0.24100E+00	16868.0	13908.0	0.0	6.71	1000.00	7.76	0.30	0.00	0.00	0.00
80301	0	0	0	0.64500E+00	44699.0	50880.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80302	0	0	0	0.64500E+00	45514.0	50111.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
85304	0	0	0	0.34300E+00	48064.0	44550.0	0.0	3.05	1000.00	2.71	0.30	0.00	0.00	0.00
80306	0	0	0	0.64500E+00	49202.0	39630.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80310	0	0	0	0.64500E+00	45298.0	33928.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80312	0	0	0	0.64500E+00	45481.0	27483.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80314	0	0	0	0.64500E+00	47879.0	27547.0	0.0	6.71	1000.00	5.05	0.30	0.00	0.00	0.00
80404	0	0	0	0.29000E+00	11629.0	34697.0	0.0	6.71	1000.00	5.12	0.30	0.00	0.00	0.00
85404	0	0	0	0.51000E-01	11601.0	34719.0	0.0	3.05	1000.00	0.91	0.30	0.00	0.00	0.00
80503	0	0	0	0.31100E+00	17349.0	53031.0	0.0	6.71	1000.00	5.33	0.30	0.00	0.00	0.00
85503	0	0	0	0.33700E+00	17373.0	53055.0	0.0	3.05	1000.00	6.11	0.30	0.00	0.00	0.00
81401	0	0	0	0.23100E+00	26476.0	15738.0	0.0	6.71	1000.00	6.70	0.30	0.00	0.00	0.00
81501	0	0	0	0.52000E-01	20960.0	10779.0	0.0	6.71	1000.00	2.78	0.30	0.00	0.00	0.00
81502	0	0	0	0.52000E-01	20197.0	7545.0	0.0	6.71	1000.00	2.78	0.30	0.00	0.00	0.00
81904	0	0	0	0.62800E+00	28465.0	56902.0	0.0	6.71	1000.00	9.18	0.30	0.00	0.00	0.00
81905	0	0	0	0.62800E+00	27689.0	56105.0	0.0	6.71	1000.00	9.18	0.30	0.00	0.00	0.00
88001	2	0	0	0.71100E-06	13000.0	48000.0	0.0	11.06	0.00	4000.00	0.00	0.00	0.00	0.00
88002	2	0	0	0.24300E-06	8000.0	43000.0	0.0	8.79	0.00	4000.00	0.00	0.00	0.00	0.00
88003	2	0	0	0.26800E-06	6000.0	40000.0	0.0	10.23	0.00	2000.00	0.00	0.00	0.00	0.00
88004	2	0	0	0.34200E-06	9000.0	39000.0	0.0	12.78	0.00	3000.00	0.00	0.00	0.00	0.00
88005	2	0	0	0.47600E-06	1000.0	34000.0	0.0	14.22	0.00	3000.00	0.00	0.00	0.00	0.00
88006	2	0	0	0.11600E-06	10000.0	35000.0	0.0	10.58	0.00	4000.00	0.00	0.00	0.00	0.00
88007	2	0	0	0.14600E-06	10000.0	30000.0	0.0	9.67	0.00	3000.00	0.00	0.00	0.00	0.00
88008	2	0	0	0.11400E-06	14000.0	30000.0	0.0	9.47	0.00	3000.00	0.00	0.00	0.00	0.00

*** WHISKEY JOE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	AVG	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
88009	2	0	0	0.63800E-06	9000.0	26000.0	0.0	10.87	0.00	2000.00	0.00	0.00	0.00	0.00
88010	2	0	0	0.17100E-06	12000.0	26000.0	0.0	9.47	0.00	2000.00	0.00	0.00	0.00	0.00
88011	2	0	0	0.81100E-07	17000.0	19000.0	0.0	11.63	0.00	3000.00	0.00	0.00	0.00	0.00
88012	2	0	0	0.25200E-05	23000.0	43000.0	0.0	38.99	0.00	4000.00	0.00	0.00	0.00	0.00
88013	2	0	0	0.16400E-06	44000.0	34000.0	0.0	9.04	0.00	4000.00	0.00	0.00	0.00	0.00
90002	2	0	0	0.21600E-06	7000.0	43000.0	0.0	9.09	0.00	4000.00	0.00	0.00	0.00	0.00
90010	2	0	0	0.25400E-06	10000.0	31000.0	0.0	10.73	0.00	2000.00	0.00	0.00	0.00	0.00
90011	2	0	0	0.28800E-07	12000.0	29000.0	0.0	8.79	0.00	4000.00	0.00	0.00	0.00	0.00
90043	2	0	0	0.15600E-08	17000.0	-12000.0	0.0	8.99	0.00	3000.00	0.00	0.00	0.00	0.00
90044	2	0	0	0.50000E-08	20000.0	-11000.0	0.0	11.34	0.00	2000.00	0.00	0.00	0.00	0.00
90045	2	0	0	0.20000E-08	20000.0	-9000.0	0.0	9.26	0.00	2000.00	0.00	0.00	0.00	0.00
90046	2	0	0	0.97500E-08	22000.0	-9000.0	0.0	14.08	0.00	2000.00	0.00	0.00	0.00	0.00
90047	2	0	0	0.12500E-08	26000.0	-9000.0	0.0	7.93	0.00	2000.00	0.00	0.00	0.00	0.00
90048	2	0	0	0.25000E-08	29000.0	-9000.0	0.0	9.25	0.00	2000.00	0.00	0.00	0.00	0.00
90049	2	0	0	0.27500E-08	30000.0	-11000.0	0.0	9.93	0.00	2000.00	0.00	0.00	0.00	0.00
90053	2	0	0	0.13800E-08	39000.0	-8000.0	0.0	4.06	0.00	4000.00	0.00	0.00	0.00	0.00
95001	2	0	0	0.36200E-06	13000.0	47000.0	0.0	9.35	0.00	4000.00	0.00	0.00	0.00	0.00
95002	2	0	0	0.39500E-06	7000.0	43000.0	0.0	34.51	0.00	4000.00	0.00	0.00	0.00	0.00
95003	2	0	0	0.10600E-05	13000.0	45000.0	0.0	17.41	0.00	2000.00	0.00	0.00	0.00	0.00
95004	2	0	0	0.40400E-06	6000.0	41000.0	0.0	10.74	0.00	2000.00	0.00	0.00	0.00	0.00
95005	2	0	0	0.20300E-06	8000.0	38000.0	0.0	14.90	0.00	4000.00	0.00	0.00	0.00	0.00
95006	2	0	0	0.56700E-06	12000.0	37000.0	0.0	12.33	0.00	4000.00	0.00	0.00	0.00	0.00
95007	2	0	0	0.10700E-05	2000.0	35000.0	0.0	14.44	0.00	2000.00	0.00	0.00	0.00	0.00
95008	2	0	0	0.26500E-06	6000.0	34000.0	0.0	10.12	0.00	4000.00	0.00	0.00	0.00	0.00
95009	2	0	0	0.69700E-06	12000.0	33000.0	0.0	13.33	0.00	4000.00	0.00	0.00	0.00	0.00
95011	2	0	0	0.31900E-06	12000.0	29000.0	0.0	10.11	0.00	4000.00	0.00	0.00	0.00	0.00
95012	2	0	0	0.48700E-06	47000.0	41000.0	0.0	10.38	0.00	5000.00	0.00	0.00	0.00	0.00
95013	2	0	0	0.47900E-06	47000.0	39000.0	0.0	10.28	0.00	2000.00	0.00	0.00	0.00	0.00
95014	2	0	0	0.16700E-06	42000.0	33000.0	0.0	9.79	0.00	4000.00	0.00	0.00	0.00	0.00
95015	2	0	0	0.65000E-06	46000.0	34000.0	0.0	10.51	0.00	4000.00	0.00	0.00	0.00	0.00
95016	2	0	0	0.49200E-06	50000.0	34000.0	0.0	9.64	0.00	4000.00	0.00	0.00	0.00	0.00
95017	2	0	0	0.87800E-06	45000.0	27000.0	0.0	12.16	0.00	3000.00	0.00	0.00	0.00	0.00
95018	2	0	0	0.14400E-06	21000.0	23000.0	0.0	11.42	0.00	3000.00	0.00	0.00	0.00	0.00
95019	2	0	0	0.29500E-06	25000.0	21000.0	0.0	13.03	0.00	2000.00	0.00	0.00	0.00	0.00
95020	2	0	0	0.19300E-06	19000.0	19000.0	0.0	12.41	0.00	3000.00	0.00	0.00	0.00	0.00
95021	2	0	0	0.28500E-06	22000.0	18000.0	0.0	12.43	0.00	2000.00	0.00	0.00	0.00	0.00
95022	2	0	0	0.20400E-06	26000.0	19000.0	0.0	10.78	0.00	2000.00	0.00	0.00	0.00	0.00
95023	2	0	0	0.88200E-07	16000.0	17000.0	0.0	10.38	0.00	2000.00	0.00	0.00	0.00	0.00
95024	2	0	0	0.16300E-06	18000.0	17000.0	0.0	13.15	0.00	2000.00	0.00	0.00	0.00	0.00

*** WHISKEY JOE FIELD SO2 - RECEPTOR GROUP 1 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	AK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
95025	2	0	0	0.41100E-06	20000.0	17000.0	0.0	12.25	0.00	2000.00	0.00	0.00	0.00	0.00
95026	2	0	0	0.20300E-06	22000.0	16000.0	0.0	12.00	0.00	2000.00	0.00	0.00	0.00	0.00
95027	2	0	0	0.29600E-06	24000.0	17000.0	0.0	10.87	0.00	2000.00	0.00	0.00	0.00	0.00
95028	2	0	0	0.36300E-06	26000.0	17000.0	0.0	11.40	0.00	2000.00	0.00	0.00	0.00	0.00
95029	2	0	0	0.19900E-06	18000.0	15000.0	0.0	12.29	0.00	2000.00	0.00	0.00	0.00	0.00
95030	2	0	0	0.36200E-06	20000.0	15000.0	0.0	14.41	0.00	2000.00	0.00	0.00	0.00	0.00
95031	2	0	0	0.17000E-06	22000.0	14000.0	0.0	11.10	0.00	2000.00	0.00	0.00	0.00	0.00
95032	2	0	0	0.36300E-06	24000.0	15000.0	0.0	12.65	0.00	2000.00	0.00	0.00	0.00	0.00
95033	2	0	0	0.23200E-06	26000.0	15000.0	0.0	12.51	0.00	2000.00	0.00	0.00	0.00	0.00
95034	2	0	0	0.31900E-06	17000.0	13000.0	0.0	11.90	0.00	2000.00	0.00	0.00	0.00	0.00
95035	2	0	0	0.20900E-06	19000.0	13000.0	0.0	13.75	0.00	2000.00	0.00	0.00	0.00	0.00
95036	2	0	0	0.20400E-06	16000.0	11000.0	0.0	12.96	0.00	2000.00	0.00	0.00	0.00	0.00
95037	2	0	0	0.20100E-06	18000.0	11000.0	0.0	12.74	0.00	2000.00	0.00	0.00	0.00	0.00
95038	2	0	0	0.11000E-06	18000.0	9000.0	0.0	9.65	0.00	2000.00	0.00	0.00	0.00	0.00
95039	2	0	0	0.48800E-07	15000.0	7000.0	0.0	11.38	0.00	2000.00	0.00	0.00	0.00	0.00
95040	2	0	0	0.34500E-07	17000.0	7000.0	0.0	8.23	0.00	2000.00	0.00	0.00	0.00	0.00
95041	2	0	0	0.83500E-07	16000.0	5000.0	0.0	13.27	0.00	2000.00	0.00	0.00	0.00	0.00
95042	2	0	0	0.22700E-07	18000.0	5000.0	0.0	7.95	0.00	2000.00	0.00	0.00	0.00	0.00
95047	2	0	0	0.10000E-08	26000.0	-9000.0	0.0	8.37	0.00	2000.00	0.00	0.00	0.00	0.00
95049	2	0	0	0.15000E-08	30000.0	-11000.0	0.0	6.11	0.00	2000.00	0.00	0.00	0.00	0.00
95050	2	0	0	0.62500E-08	25000.0	-13000.0	0.0	5.44	0.00	2000.00	0.00	0.00	0.00	0.00
95051	2	0	0	0.15000E-06	17000.0	52000.0	0.0	8.23	0.00	3000.00	0.00	0.00	0.00	0.00
95052	2	0	0	0.80600E-06	47000.0	15000.0	0.0	12.11	0.00	2000.00	0.00	0.00	0.00	0.00
95053	2	0	0	0.35000E-08	39000.0	-8000.0	0.0	8.67	0.00	4000.00	0.00	0.00	0.00	0.00
99501	0	0	0	0.28400E+02	34200.0	20100.0	0.0	30.50	866.00	15.00	1.10	0.00	0.00	0.00
99502	0	0	0	0.53800E+02	43800.0	39700.0	0.0	59.50	870.00	10.00	1.80	0.00	0.00	0.00

Figure B-46
Whiskey Joe Field
Locations of Future SO_2 Point and Area Sources

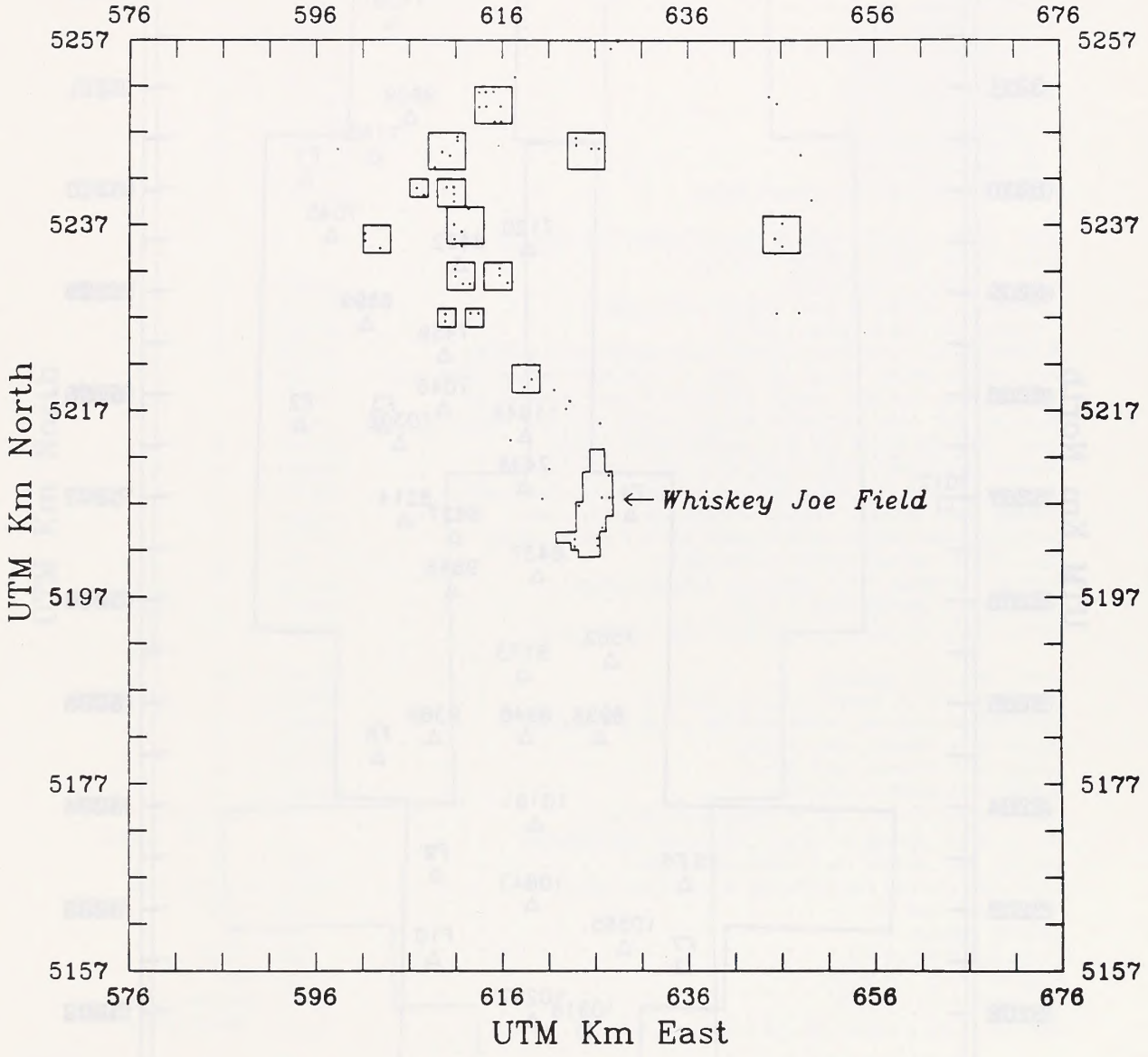


Figure B-47
Whiskey Joe Field
Locations of Study-Field SO_2 Sources

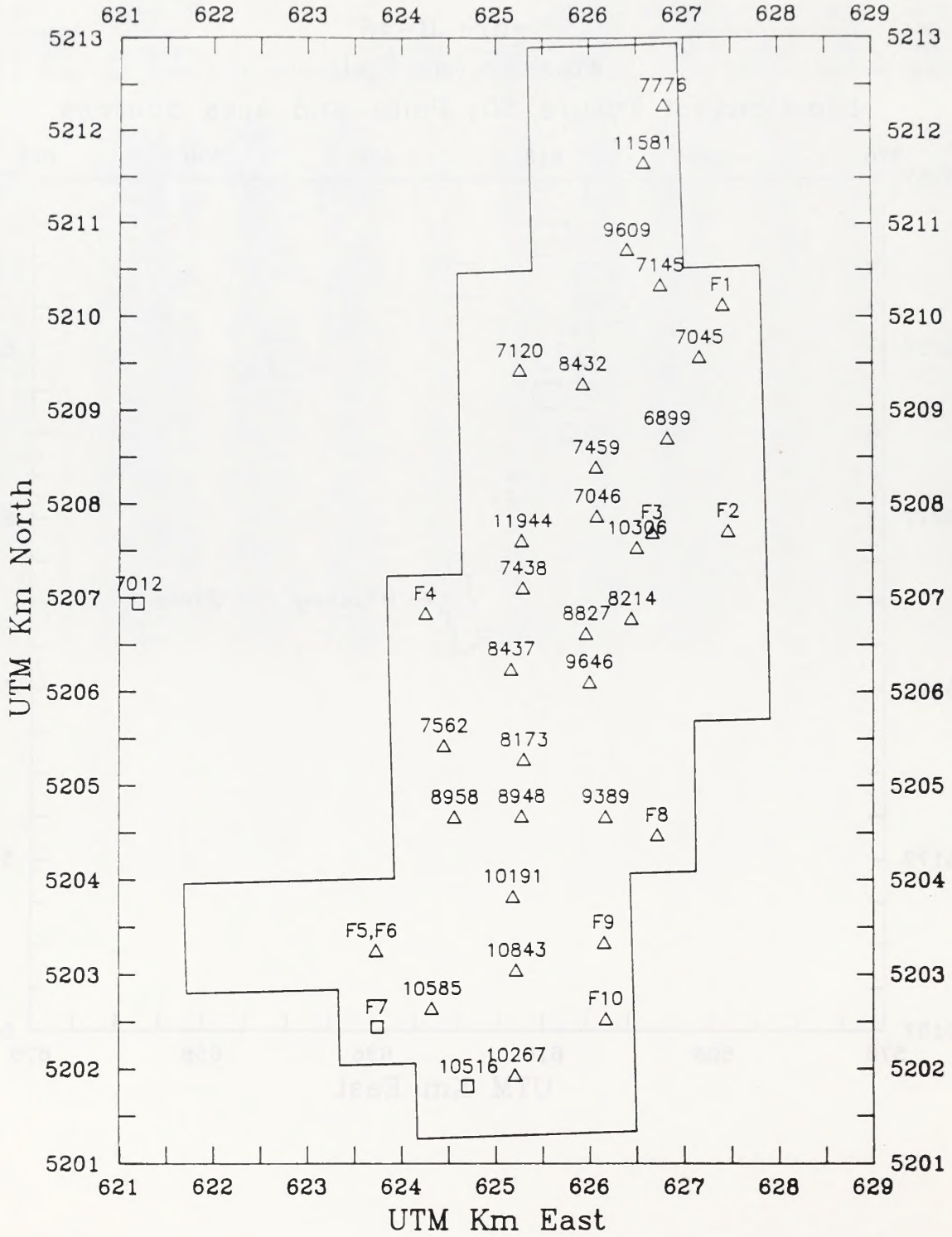
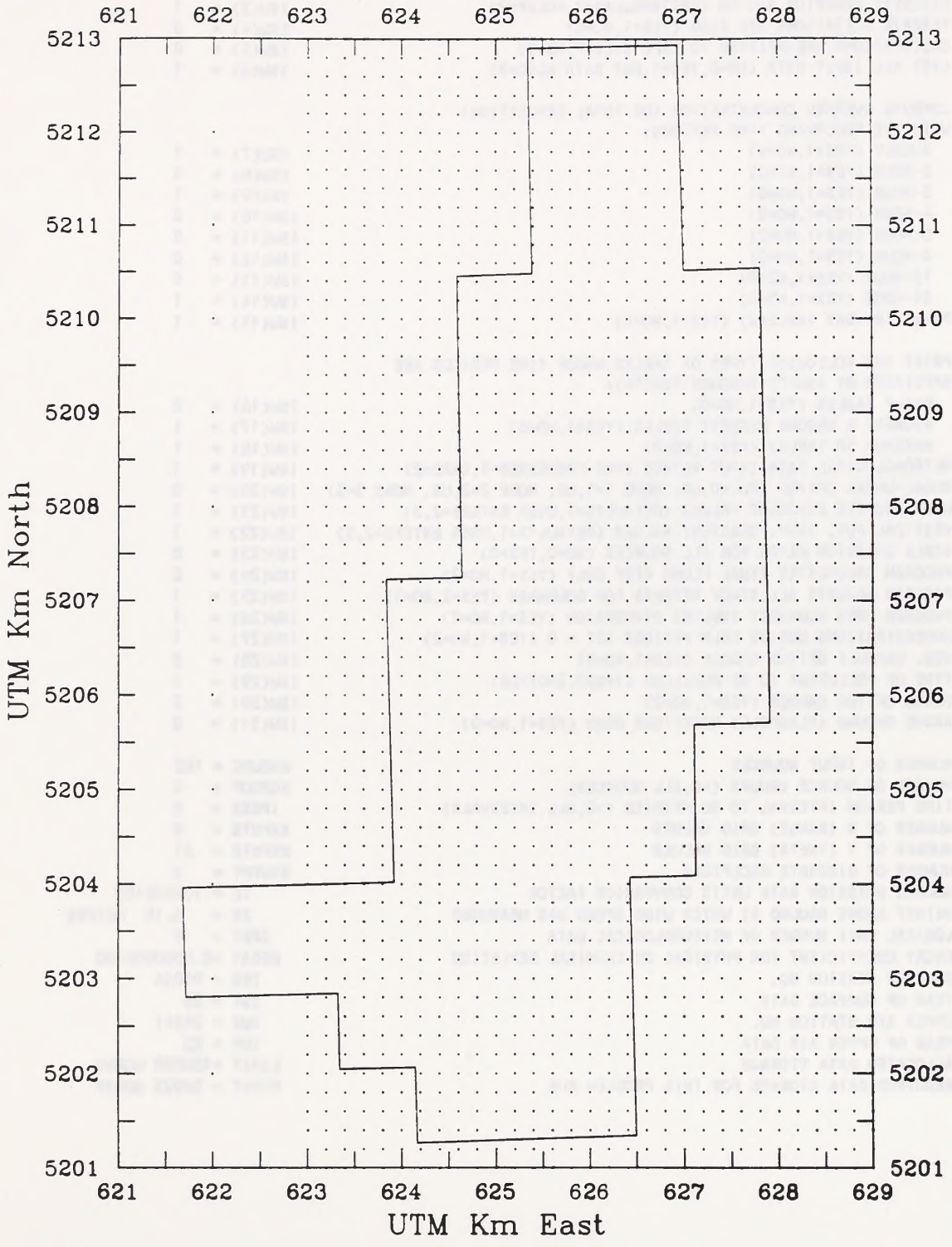


Figure B-48
Whiskey Joe Field
ISCST Receptor Locations

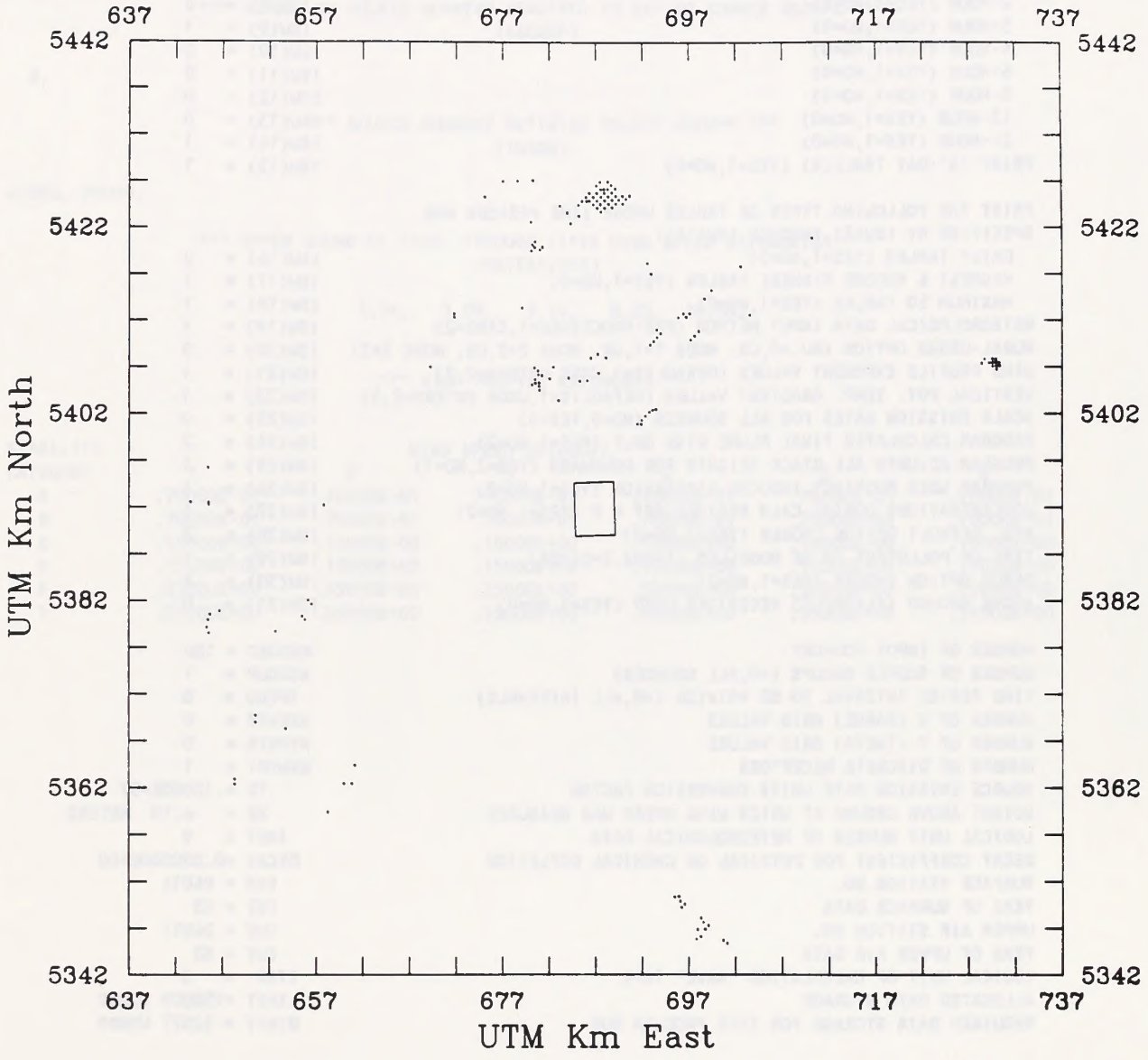


*** WHISKEY JOE FIELD SO2 - RECEPTOR GROUP 1 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 182
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 4
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 8
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 61
NUMBER OF DISCRETE RECEPTORS	NXYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 86923 WORDS

Lostwood
National Wilderness Area

Figure B-49
Lostwood National Wilderness Area
Locations of Existing PSD Sources of SO_2



*** LOSTWOOD N.W.R. - SO2 - CLASS I < 50 KM ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 1
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 0
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 180
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 1
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 0
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 1
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
LOGICAL UNIT OF CALCULATION 'SAVE' TAPE	ITAP = 3
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 52077 WORDS

*** LOSTWOOD N.W.R. - SO2 - CLASS I < 50 KM ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 0
```

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

2,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

40000,-79999,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** LOSTWOOD N.W.R. - SO2 - CLASS I < 50 KM ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(-13731.0, -6986.0), (

*** LOSTWOOD N.W.R. - SO2 - CLASS I < 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
47433	0	0	0	0.11500E+00	-44194.0	-20082.0	0.0	6.71	1000.00	2.47	0.30	0.00	0.00	0.00
48000	0	0	0	0.12200E+00	-44510.0	-19690.0	0.0	6.71	1000.00	2.56	0.30	0.00	0.00	0.00
48690	0	0	0	0.29700E+00	-43851.0	-17954.0	0.0	6.71	1000.00	6.29	0.30	0.00	0.00	0.00
68690	0	0	0	0.23400E+00	-43851.0	-17954.0	0.0	3.05	1000.00	4.95	0.30	0.00	0.00	0.00
49261	0	0	0	0.14500E+00	-43461.0	-18393.0	0.0	6.71	1000.00	3.06	0.30	0.00	0.00	0.00
69261	0	0	0	0.41000E+00	-43461.0	-18393.0	0.0	3.05	1000.00	8.67	0.30	0.00	0.00	0.00
49025	0	0	0	0.86000E-01	-28179.0	12690.0	0.0	6.71	1000.00	2.05	0.30	0.00	0.00	0.00
47152	0	0	0	0.27100E+00	-28165.0	12293.0	0.0	6.71	1000.00	6.47	0.30	0.00	0.00	0.00
71234	0	0	0	0.53000E+00	-30786.0	6971.0	0.0	3.05	1000.00	15.50	0.30	0.00	0.00	0.00
50216	0	0	0	0.70900E+00	-1849.0	10778.0	0.0	8.23	1000.00	4.96	0.30	0.00	0.00	0.00
70216	0	0	0	0.59300E+00	-1849.0	10778.0	0.0	6.10	1000.00	4.15	0.30	0.00	0.00	0.00
70605	0	0	0	0.11200E+00	-2373.0	10310.0	0.0	3.05	1000.00	1.86	0.30	0.00	0.00	0.00
70650	0	0	0	0.22400E+00	-2759.0	9895.0	0.0	3.05	1000.00	1.94	0.30	0.00	0.00	0.00
70968	0	0	0	0.47700E+00	-1849.0	10778.0	0.0	6.10	1000.00	3.34	0.30	0.00	0.00	0.00
50509	0	0	0	0.14000E-01	-529.0	15212.0	0.0	6.71	1000.00	1.85	0.30	0.00	0.00	0.00
50383	0	0	0	0.19000E-01	-1299.0	14328.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
70383	0	0	0	0.13100E+00	-1299.0	14328.0	0.0	3.05	1000.00	12.74	0.30	0.00	0.00	0.00
50623	0	0	0	0.34000E-01	-6419.0	10157.0	0.0	6.71	1000.00	0.53	0.30	0.00	0.00	0.00
50683	0	0	0	0.50000E-01	-6006.0	10593.0	0.0	6.71	1000.00	0.78	0.30	0.00	0.00	0.00
50740	0	0	0	0.34000E-01	-7158.0	9341.0	0.0	6.71	1000.00	0.53	0.30	0.00	0.00	0.00
50504	0	0	0	0.53000E-01	-6423.0	10980.0	0.0	6.71	1000.00	0.82	0.30	0.00	0.00	0.00
50773	0	0	0	0.11900E+00	-6774.0	9758.0	0.0	6.71	1000.00	1.85	0.30	0.00	0.00	0.00
48647	0	0	0	0.16900E+00	-12439.0	23671.0	0.0	6.71	1000.00	4.06	0.30	0.00	0.00	0.00
48794	0	0	0	0.70000E-01	-12048.0	24085.0	0.0	6.71	1000.00	1.69	0.30	0.00	0.00	0.00
49116	0	0	0	0.54000E-01	-10849.0	24535.0	0.0	6.71	1000.00	1.22	0.30	0.00	0.00	0.00
49307	0	0	0	0.26000E-01	-10876.0	25339.0	0.0	6.71	1000.00	0.78	0.30	0.00	0.00	0.00
49390	0	0	0	0.51000E-01	-10903.0	26141.0	0.0	6.71	1000.00	1.23	0.30	0.00	0.00	0.00
49469	0	0	0	0.89000E-01	-11658.0	24505.0	0.0	6.71	1000.00	1.82	0.30	0.00	0.00	0.00
49544	0	0	0	0.10800E+00	-11683.0	25309.0	0.0	6.71	1000.00	2.95	0.30	0.00	0.00	0.00
49391	0	0	0	0.82000E-01	-10142.0	25361.0	0.0	6.71	1000.00	1.97	0.30	0.00	0.00	0.00
49647	0	0	0	0.10700E+00	-10110.0	24527.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
49650	0	0	0	0.23000E-01	-9332.0	25383.0	0.0	6.71	1000.00	0.56	0.30	0.00	0.00	0.00
49694	0	0	0	0.65000E-01	-11292.0	25726.0	0.0	6.71	1000.00	1.85	0.30	0.00	0.00	0.00
49665	0	0	0	0.10300E+00	-12462.0	24476.0	0.0	6.71	1000.00	2.06	0.30	0.00	0.00	0.00
49686	0	0	0	0.57000E-01	-11264.0	24922.0	0.0	6.71	1000.00	1.23	0.30	0.00	0.00	0.00
49687	0	0	0	0.32000E-01	-10495.0	24949.0	0.0	6.71	1000.00	0.68	0.30	0.00	0.00	0.00
49688	0	0	0	0.10000E+00	-12072.0	24892.0	0.0	6.71	1000.00	2.41	0.30	0.00	0.00	0.00
49739	0	0	0	0.13100E+00	-12487.0	25280.0	0.0	6.71	1000.00	2.86	0.30	0.00	0.00	0.00
49723	0	0	0	0.31000E-01	-12101.0	25696.0	0.0	6.71	1000.00	0.73	0.30	0.00	0.00	0.00

*** LOSTWOOD N.W.R. - SO2 - CLASS I < 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
49724	0	0	0	0.58000E-01	-11237.0	24114.0	0.0	6.71	1000.00	1.35	0.30	0.00	0.00	0.00
49725	0	0	0	0.91000E-01	-9770.0	25018.0	0.0	7.01	1000.00	1.92	0.30	0.00	0.00	0.00
69725	0	0	0	0.22100E+01	-9770.0	25018.0	0.0	1.83	1000.00	46.72	0.30	0.00	0.00	0.00
49731	0	0	0	0.74000E-01	-11714.0	26111.0	0.0	6.71	1000.00	2.21	0.30	0.00	0.00	0.00
49798	0	0	0	0.95000E-01	-11742.0	26915.0	0.0	6.71	1000.00	2.28	0.30	0.00	0.00	0.00
49808	0	0	0	0.30000E-01	-12905.0	25668.0	0.0	6.71	1000.00	0.87	0.30	0.00	0.00	0.00
49807	0	0	0	0.79000E-01	-11319.0	26528.0	0.0	6.71	1000.00	1.88	0.30	0.00	0.00	0.00
49809	0	0	0	0.64000E-01	-12518.0	26083.0	0.0	6.71	1000.00	1.73	0.30	0.00	0.00	0.00
49812	0	0	0	0.70000E-01	-14873.0	24389.0	0.0	6.71	1000.00	1.67	0.30	0.00	0.00	0.00
69812	0	0	0	0.15400E+00	-14873.0	24389.0	0.0	3.05	1000.00	3.69	0.30	0.00	0.00	0.00
49828	0	0	0	0.82000E-01	-12546.0	26887.0	0.0	6.71	1000.00	1.96	0.30	0.00	0.00	0.00
49829	0	0	0	0.20000E-01	-12935.0	26473.0	0.0	6.71	1000.00	0.49	0.30	0.00	0.00	0.00
49840	0	0	0	0.12300E+00	-12852.0	24062.0	0.0	6.71	1000.00	2.95	0.30	0.00	0.00	0.00
49841	0	0	0	0.81000E-01	-12903.0	24863.0	0.0	6.71	1000.00	1.95	0.30	0.00	0.00	0.00
49877	0	0	0	0.64000E-01	-14089.0	25225.0	0.0	6.71	1000.00	1.53	0.30	0.00	0.00	0.00
49878	0	0	0	0.57000E-01	-14479.0	24807.0	0.0	6.71	1000.00	1.37	0.30	0.00	0.00	0.00
69878	0	0	0	0.14900E+00	-14479.0	24807.0	0.0	3.05	1000.00	3.57	0.30	0.00	0.00	0.00
49927	0	0	0	0.11600E+00	-13701.0	25641.0	0.0	6.71	1000.00	2.78	0.30	0.00	0.00	0.00
49933	0	0	0	0.61000E-01	-13285.0	25253.0	0.0	6.71	1000.00	1.48	0.30	0.00	0.00	0.00
50179	0	0	0	0.25800E+00	-13675.0	24837.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50373	0	0	0	0.35000E-01	-14028.0	24825.0	0.0	7.62	1000.00	0.67	0.30	0.00	0.00	0.00
50310	0	0	0	0.24800E+00	-13261.0	24449.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50858	0	0	0	0.32700E+00	-14830.0	23197.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
70858	0	0	0	0.35500E+00	-14830.0	23197.0	0.0	3.05	1000.00	10.09	0.30	0.00	0.00	0.00
50898	0	0	0	0.23200E+00	-15712.0	22402.0	0.0	6.71	1000.00	6.31	0.30	0.00	0.00	0.00
70898	0	0	0	0.12600E+01	-15712.0	22402.0	0.0	3.05	1000.00	34.30	0.30	0.00	0.00	0.00
51649	0	0	0	0.50000E-01	-12116.0	26097.0	0.0	6.71	1000.00	1.21	0.30	0.00	0.00	0.00
42759	0	0	0	0.73000E-01	-56475.0	-7471.0	0.0	6.71	1000.00	1.28	0.30	0.00	0.00	0.00
62759	0	0	0	0.29900E+00	-56475.0	-7471.0	0.0	3.05	1000.00	5.21	0.30	0.00	0.00	0.00
50214	0	0	0	0.21300E+00	-54516.0	-7470.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
50435	0	0	0	0.21300E+00	-54508.0	-7772.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
50210	0	0	0	0.71000E-01	-54555.0	-3799.0	0.0	7.32	1000.00	2.48	0.30	0.00	0.00	0.00
70210	0	0	0	0.17400E+00	-54555.0	-3799.0	0.0	6.10	1000.00	6.10	0.30	0.00	0.00	0.00
48926	0	0	0	0.22000E-01	-47325.0	-21326.0	0.0	6.71	1000.00	0.68	0.30	0.00	0.00	0.00
50698	0	0	0	0.69300E+00	30019.0	6722.0	0.0	6.71	1000.00	9.36	0.30	0.00	0.00	0.00
50381	0	0	0	0.10300E+00	29153.0	7439.0	0.0	6.71	1000.00	1.22	0.30	0.00	0.00	0.00
50620	0	0	0	0.12000E+00	29515.0	7856.0	0.0	6.71	1000.00	1.90	0.30	0.00	0.00	0.00
50640	0	0	0	0.76000E-01	28733.0	7824.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
50641	0	0	0	0.17600E+00	29552.0	7052.0	0.0	6.71	1000.00	2.51	0.30	0.00	0.00	0.00

*** LOSTWOOD N.W.R. - SO2 - CLASS I < 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
50545	0	0	0	0.79000E-01	29937.0	7478.0	0.0	6.71	1000.00	1.25	0.30	0.00	0.00	0.00
50786	0	0	0	0.87000E-01	28394.0	7363.0	0.0	6.71	1000.00	1.25	0.30	0.00	0.00	0.00
50790	0	0	0	0.63700E+00	30358.0	7099.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50955	0	0	0	0.82000E-01	30290.0	7498.0	0.0	6.71	1000.00	1.25	0.30	0.00	0.00	0.00
50956	0	0	0	0.15700E+00	29954.0	7075.0	0.0	6.71	1000.00	2.48	0.30	0.00	0.00	0.00
50972	0	0	0	0.15500E+00	29533.0	7454.0	0.0	6.71	1000.00	2.50	0.30	0.00	0.00	0.00
51196	0	0	0	0.16300E+00	29939.0	7834.0	0.0	6.71	1000.00	1.87	0.30	0.00	0.00	0.00
51126	0	0	0	0.40000E-02	-51702.0	-37171.0	0.0	6.71	1000.00	4.94	0.30	0.00	0.00	0.00
51842	0	0	0	0.30000E-01	-51686.0	-37689.0	0.0	6.71	1000.00	4.95	0.30	0.00	0.00	0.00
48824	0	0	0	0.72000E+00	3592.0	12546.0	0.0	10.67	1000.00	3.10	0.30	0.00	0.00	0.00
68824	0	0	0	0.13500E+00	3592.0	12546.0	0.0	6.10	1000.00	0.58	0.30	0.00	0.00	0.00
52062	0	0	0	0.73000E-01	-43990.0	-11179.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
52109	0	0	0	0.49300E+00	-42134.0	-7786.0	0.0	3.66	1000.00	4.31	0.30	0.00	0.00	0.00
72109	0	0	0	0.24100E+01	-42134.0	-7786.0	0.0	3.05	1000.00	21.07	0.30	0.00	0.00	0.00
46350	0	0	0	0.10000E-01	-12672.0	6330.0	0.0	6.71	1000.00	0.42	0.30	0.00	0.00	0.00
46397	0	0	0	0.51000E-01	-19066.0	4495.0	0.0	6.71	1000.00	2.15	0.30	0.00	0.00	0.00
46584	0	0	0	0.10000E-01	-13904.0	5536.0	0.0	6.71	1000.00	0.42	0.30	0.00	0.00	0.00
46930	0	0	0	0.10000E-01	-12735.0	8342.0	0.0	6.71	1000.00	0.42	0.30	0.00	0.00	0.00
47546	0	0	0	0.15300E+00	-19486.0	5244.0	0.0	6.71	1000.00	6.39	0.30	0.00	0.00	0.00
47641	0	0	0	0.63000E-01	-19584.0	6857.0	0.0	6.71	1000.00	3.05	0.30	0.00	0.00	0.00
47843	0	0	0	0.40000E-01	-19825.0	5049.0	0.0	6.71	1000.00	1.43	0.30	0.00	0.00	0.00
48425	0	0	0	0.10100E+00	-19194.0	6573.0	0.0	6.71	1000.00	4.24	0.30	0.00	0.00	0.00
48462	0	0	0	0.31000E-01	-19121.0	6150.0	0.0	6.71	1000.00	1.32	0.30	0.00	0.00	0.00
48916	0	0	0	0.44000E-01	-17533.0	6969.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
46585	0	0	0	0.10000E-01	-13478.0	7963.0	0.0	6.71	1000.00	0.41	0.30	0.00	0.00	0.00
46599	0	0	0	0.10000E-01	-19085.0	5301.0	0.0	6.71	1000.00	0.41	0.30	0.00	0.00	0.00
46929	0	0	0	0.10000E-01	-14707.0	5449.0	0.0	6.71	1000.00	0.42	0.30	0.00	0.00	0.00
47188	0	0	0	0.10000E-01	-15887.0	5816.0	0.0	6.71	1000.00	0.43	0.30	0.00	0.00	0.00
49014	0	0	0	0.11000E-01	-11927.0	7968.0	0.0	6.71	1000.00	0.46	0.30	0.00	0.00	0.00
49863	0	0	0	0.26000E-01	-17919.0	5714.0	0.0	6.71	1000.00	1.10	0.30	0.00	0.00	0.00
42461	0	0	0	0.31000E-01	-19496.0	5650.0	0.0	6.71	1000.00	1.31	0.30	0.00	0.00	0.00
50058	0	0	0	0.13100E+00	-19084.0	4898.0	0.0	6.71	1000.00	5.49	0.30	0.00	0.00	0.00
51800	0	0	0	0.25000E-01	-18720.0	6094.0	0.0	6.71	1000.00	1.06	0.30	0.00	0.00	0.00
71925	0	0	0	0.11300E+00	-17005.0	3358.0	0.0	3.05	1000.00	4.75	0.30	0.00	0.00	0.00
51616	0	0	0	0.90000E-02	-2863.0	12719.0	0.0	6.71	1000.00	0.89	0.30	0.00	0.00	0.00
71616	0	0	0	0.20000E-02	-2863.0	12719.0	0.0	0.30	1000.00	0.25	0.30	0.00	0.00	0.00
51690	0	0	0	0.80000E-02	-3301.0	12350.0	0.0	6.71	1000.00	0.89	0.30	0.00	0.00	0.00
71690	0	0	0	0.40000E-02	-3301.0	12350.0	0.0	0.30	1000.00	0.51	0.30	0.00	0.00	0.00
51709	0	0	0	0.70000E-02	-3575.0	12693.0	0.0	6.71	1000.00	0.89	0.30	0.00	0.00	0.00

*** LOSTWOOD N.W.R. - SO2 - CLASS I < 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
71709	0	0	0	0.23000E-01	-3575.0	12693.0	0.0	0.30	1000.00	3.04	0.30	0.00	0.00	0.00
51790	0	0	0	0.80000E-02	-4055.0	12274.0	0.0	6.71	1000.00	0.89	0.30	0.00	0.00	0.00
71790	0	0	0	0.80000E-02	-4055.0	12274.0	0.0	0.30	1000.00	0.89	0.30	0.00	0.00	0.00
48529	0	0	0	0.97000E-01	-39201.0	-37614.0	0.0	6.71	1000.00	2.12	0.30	0.00	0.00	0.00
68529	0	0	0	0.11400E+00	-39201.0	-37614.0	0.0	3.05	1000.00	2.48	0.30	0.00	0.00	0.00
68999	0	0	0	0.22300E+00	-38852.0	-35638.0	0.0	3.05	1000.00	4.86	0.30	0.00	0.00	0.00
49146	0	0	0	0.23400E+00	-40042.0	-37622.0	0.0	6.71	1000.00	5.11	0.30	0.00	0.00	0.00
47699	0	0	0	0.96000E-01	-41707.0	-40608.0	0.0	6.71	1000.00	2.09	0.30	0.00	0.00	0.00
49372	0	0	0	0.27000E-01	-16049.0	23552.0	0.0	6.71	1000.00	0.80	0.30	0.00	0.00	0.00
50051	0	0	0	0.83700E+00	-22974.0	26951.0	0.0	7.62	1000.00	24.81	0.30	0.00	0.00	0.00
70051	0	0	0	0.10460E+01	-22974.0	26951.0	0.0	0.30	1000.00	31.01	0.30	0.00	0.00	0.00
70237	0	0	0	0.30000E-01	-21365.0	26998.0	0.0	3.05	1000.00	0.88	0.30	0.00	0.00	0.00
50289	0	0	0	0.13300E+00	-19798.0	27049.0	0.0	6.71	1000.00	3.93	0.30	0.00	0.00	0.00
70289	0	0	0	0.36400E+00	-19798.0	27049.0	0.0	3.05	1000.00	10.80	0.30	0.00	0.00	0.00
50388	0	0	0	0.56000E-01	-24937.0	25278.0	0.0	6.71	1000.00	1.67	0.30	0.00	0.00	0.00
70388	0	0	0	0.28200E+00	-24937.0	25278.0	0.0	3.05	1000.00	8.36	0.30	0.00	0.00	0.00
50637	0	0	0	0.21000E-01	-16879.0	24327.0	0.0	6.71	1000.00	0.62	0.30	0.00	0.00	0.00
50793	0	0	0	0.43000E-01	-19996.0	22558.0	0.0	6.71	1000.00	1.26	0.30	0.00	0.00	0.00
50975	0	0	0	0.87000E-01	10165.0	20843.0	0.0	6.71	1000.00	2.57	0.30	0.00	0.00	0.00
50514	0	0	0	0.17500E+00	-19967.0	19492.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48759	0	0	0	0.40000E-01	-20951.0	13352.0	0.0	6.71	1000.00	1.41	0.30	0.00	0.00	0.00
50629	0	0	0	0.17500E+00	-19831.0	20149.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50644	0	0	0	0.17500E+00	-19579.0	19852.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50744	0	0	0	0.17500E+00	-18703.0	19882.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50745	0	0	0	0.17500E+00	-18998.0	19567.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50841	0	0	0	0.17500E+00	-19537.0	20463.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
51039	0	0	0	0.10400E+00	-7241.0	2175.0	0.0	6.71	1000.00	4.34	0.30	0.00	0.00	0.00
51179	0	0	0	0.10400E+00	-7684.0	1713.0	0.0	6.71	1000.00	4.34	0.30	0.00	0.00	0.00
51259	0	0	0	0.10400E+00	-6895.0	2386.0	0.0	6.71	1000.00	4.34	0.30	0.00	0.00	0.00
51341	0	0	0	0.10400E+00	-6505.0	2505.0	0.0	6.71	1000.00	4.34	0.30	0.00	0.00	0.00
51362	0	0	0	0.10400E+00	-8061.0	1293.0	0.0	6.71	1000.00	4.34	0.30	0.00	0.00	0.00
51534	0	0	0	0.10400E+00	-8564.0	879.0	0.0	6.71	1000.00	4.34	0.30	0.00	0.00	0.00
51651	0	0	0	0.10400E+00	-8119.0	880.0	0.0	6.71	1000.00	4.34	0.30	0.00	0.00	0.00
49335	0	0	0	0.10000E-02	2580.0	17748.0	0.0	6.71	1000.00	1.23	0.30	0.00	0.00	0.00
46974	0	0	0	0.32300E+00	1124.0	-54669.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
47369	0	0	0	0.20700E+00	707.0	-54313.0	0.0	6.71	1000.00	2.38	0.30	0.00	0.00	0.00
47362	0	0	0	0.99000E-01	-1263.0	-53120.0	0.0	6.71	1000.00	1.84	0.30	0.00	0.00	0.00
47674	0	0	0	0.14300E+00	-1718.0	-51944.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
67674	0	0	0	0.32000E-01	-1718.0	-51944.0	0.0	3.05	1000.00	0.84	0.30	0.00	0.00	0.00

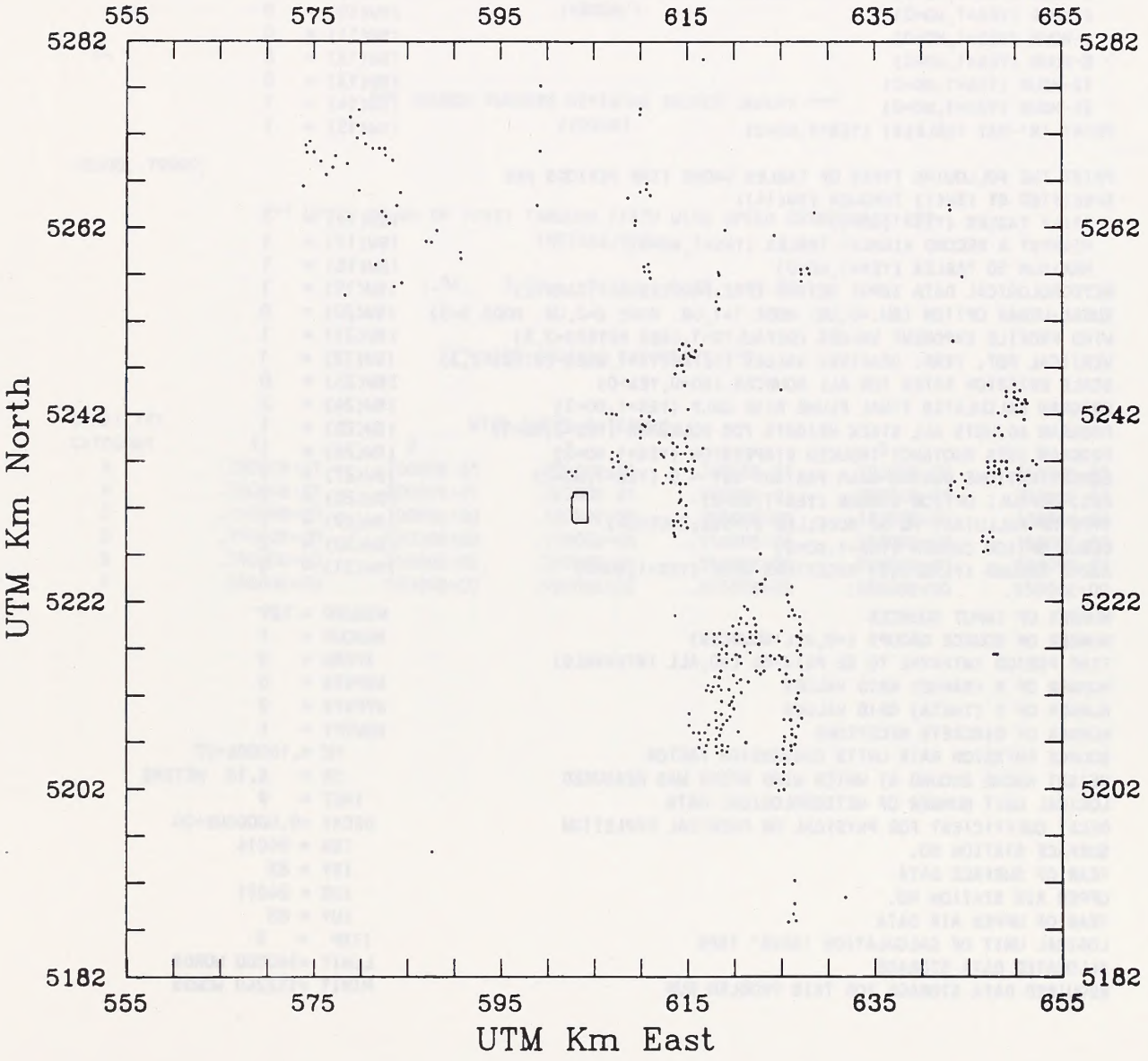
*** LOSTWOOD N.W.R. - SO2 - CLASS I < 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE E	WAK E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
47807	0	0	0	0.34900E+00	-2089.0	-53180.0	0.0	6.71	1000.00	6.41	0.30	0.00	0.00	0.00
49278	0	0	0	0.47700E+00	-2232.0	-54186.0	0.0	6.71	1000.00	7.28	0.30	0.00	0.00	0.00
46949	0	0	0	0.59000E+00	-858.0	-52729.0	0.0	6.71	1000.00	9.23	0.30	0.00	0.00	0.00
66949	0	0	0	0.27100E+00	-858.0	-52729.0	0.0	3.05	1000.00	4.24	0.30	0.00	0.00	0.00
49866	0	0	0	0.92000E+00	-3895.0	-50120.0	0.0	9.14	1000.00	12.40	0.30	0.00	0.00	0.00
69866	0	0	0	0.60500E+00	-3895.0	-50120.0	0.0	9.14	1000.00	8.15	0.30	0.00	0.00	0.00
49949	0	0	0	0.39900E+00	-4558.0	-49678.0	0.0	6.71	1000.00	6.09	0.30	0.00	0.00	0.00
50071	0	0	0	0.86700E+00	-4060.0	-49620.0	0.0	9.14	1000.00	11.98	0.30	0.00	0.00	0.00
70071	0	0	0	0.35000E+00	-4060.0	-49620.0	0.0	9.14	1000.00	4.84	0.30	0.00	0.00	0.00
50370	0	0	0	0.44000E+00	-3772.0	-50812.0	0.0	6.71	1000.00	5.34	0.30	0.00	0.00	0.00
50544	0	0	0	0.12200E+00	-3426.0	-50443.0	0.0	6.71	1000.00	1.89	0.30	0.00	0.00	0.00
52188	0	0	0	0.31700E+00	-1691.0	-53922.0	0.0	6.71	1000.00	4.84	0.30	0.00	0.00	0.00
52230	0	0	0	0.19100E+00	-1391.0	-52391.0	0.0	6.71	1000.00	2.92	0.30	0.00	0.00	0.00
72230	0	0	0	0.58200E+00	-1391.0	-52391.0	0.0	3.05	1000.00	8.88	0.30	0.00	0.00	0.00
50047	0	0	0	0.50000E-02	-54678.0	-20867.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50292	0	0	0	0.60000E-02	-54313.0	-19494.0	0.0	6.71	1000.00	2.48	0.30	0.00	0.00	0.00
51354	0	0	0	0.10000E-02	-53306.0	-19133.0	0.0	6.71	1000.00	0.29	0.30	0.00	0.00	0.00
51805	0	0	0	0.23000E-01	-54542.0	-20111.0	0.0	6.71	1000.00	9.36	0.30	0.00	0.00	0.00
52174	0	0	0	0.10000E-02	-54457.0	-21502.0	0.0	9.14	1000.00	0.29	0.30	0.00	0.00	0.00
46823	0	0	0	0.26000E+00	-46239.0	-31774.0	0.0	6.71	1000.00	5.09	0.30	0.00	0.00	0.00
50328	0	0	0	0.59900E+00	-49486.0	-30307.0	0.0	6.71	1000.00	4.76	0.30	0.00	0.00	0.00
51405	0	0	0	0.88900E+00	-49505.0	-31063.0	0.0	6.71	1000.00	7.59	0.30	0.00	0.00	0.00
50325	0	0	0	0.14000E-01	-7430.0	18149.0	0.0	6.71	1000.00	1.71	0.30	0.00	0.00	0.00
51756	0	0	0	0.10000E-02	-7041.0	17010.0	0.0	8.53	1000.00	0.07	0.30	0.00	0.00	0.00

Theodore Roosevelt National Park
Elkhorn Ranch Unit

Figure B-50
Theodore Roosevelt Nat'l Park - Elkhorn Ranch Site
Locations of Existing PSD Sources of SO_2



*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 1
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 0
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 529
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 1
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 0
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 1
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
LOGICAL UNIT OF CALCULATION 'SAVE' TAPE	ITAP = 3
ALLOCATED DATA STORAGE	LIMIT =160000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT =152240 WORDS

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 0
```

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

2,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

40000,-79999,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(4822.0, 32225.0), (

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
45168	0	0	0	0.19500E+00	13191.0	42464.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
46070	0	0	0	0.40000E-02	26351.0	-7766.0	0.0	6.71	1000.00	1.80	0.30	0.00	0.00	0.00
46083	0	0	0	0.50000E+00	14498.0	47976.0	0.0	4.57	1000.00	7.89	0.30	0.00	0.00	0.00
46200	0	0	0	0.63900E+00	44676.0	34906.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
46242	0	0	0	0.20600E+00	-23719.0	67579.0	0.0	6.71	1000.00	4.93	0.30	0.00	0.00	0.00
46258	0	0	0	0.34700E+00	13522.0	29309.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
46270	0	0	0	0.15300E+00	18449.0	17719.0	0.0	6.71	1000.00	5.92	0.30	0.00	0.00	0.00
46310	0	0	0	0.84000E-01	10913.0	41733.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
46403	0	0	0	0.54000E+00	14066.0	48927.0	0.0	4.57	1000.00	8.06	0.30	0.00	0.00	0.00
46444	0	0	0	0.13400E+00	-17368.0	69688.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
46468	0	0	0	0.21500E+00	-15726.0	65700.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
46534	0	0	0	0.63900E+00	49342.0	42876.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
46546	0	0	0	0.81000E-01	19505.0	9757.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46551	0	0	0	0.30000E-01	18077.0	8532.0	0.0	6.71	1000.00	1.48	0.30	0.00	0.00	0.00
46552	0	0	0	0.40100E+00	15118.0	49353.0	0.0	4.57	1000.00	7.43	0.30	0.00	0.00	0.00
46566	0	0	0	0.53600E+00	14416.0	49551.0	0.0	4.57	1000.00	8.30	0.30	0.00	0.00	0.00
46579	0	0	0	0.13500E+00	23316.0	24452.0	0.0	6.71	1000.00	3.36	0.30	0.00	0.00	0.00
46589	0	0	0	0.88000E-01	18028.0	9343.0	0.0	6.71	1000.00	3.76	0.30	0.00	0.00	0.00
46602	0	0	0	0.96000E-01	20388.0	8153.0	0.0	6.71	1000.00	2.96	0.30	0.00	0.00	0.00
46618	0	0	0	0.43000E-01	16803.0	8027.0	0.0	6.71	1000.00	2.94	0.30	0.00	0.00	0.00
46619	0	0	0	0.10000E-02	15543.0	7989.0	0.0	6.71	1000.00	0.27	0.30	0.00	0.00	0.00
46626	0	0	0	0.45300E+00	-16556.0	69195.0	0.0	6.71	1000.00	11.41	0.30	0.00	0.00	0.00
46643	0	0	0	0.17700E+00	-9269.0	58628.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46658	0	0	0	0.11000E-01	17216.0	8859.0	0.0	6.71	1000.00	0.65	0.30	0.00	0.00	0.00
46659	0	0	0	0.50000E-02	17183.0	7277.0	0.0	6.71	1000.00	0.56	0.30	0.00	0.00	0.00
46663	0	0	0	0.16500E+00	-18036.0	70498.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
46688	0	0	0	0.57000E-01	18396.0	7755.0	0.0	6.71	1000.00	2.12	0.30	0.00	0.00	0.00
46689	0	0	0	0.80000E-02	18560.0	8363.0	0.0	6.71	1000.00	1.54	0.30	0.00	0.00	0.00
46698	0	0	0	0.24100E+00	18305.0	53269.0	0.0	4.57	1000.00	3.99	0.30	0.00	0.00	0.00
46701	0	0	0	0.16000E-01	17986.0	7301.0	0.0	6.71	1000.00	1.60	0.30	0.00	0.00	0.00
46704	0	0	0	0.71000E-01	9934.0	65809.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
46710	0	0	0	0.12600E+00	-19655.0	72053.0	0.0	6.71	1000.00	4.62	0.30	0.00	0.00	0.00
46715	0	0	0	0.51000E-01	-20244.0	74599.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
46718	0	0	0	0.78000E-01	10586.0	66114.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
46746	0	0	0	0.20000E-01	16158.0	8007.0	0.0	6.71	1000.00	1.14	0.30	0.00	0.00	0.00
46747	0	0	0	0.10900E+00	-9379.0	59315.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
46756	0	0	0	0.38000E+00	22289.0	18181.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
46801	0	0	0	0.13400E+00	-22978.0	68385.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
46816	0	0	0	0.80000E-02	17995.0	6540.0	0.0	6.71	1000.00	0.47	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
46830	0	0	0	0.96000E-01	22710.0	23862.0	0.0	6.71	1000.00	3.40	0.30	0.00	0.00	0.00
46845	0	0	0	0.63000E-01	18609.0	9960.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46856	0	0	0	0.34700E+00	13525.0	30098.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
46859	0	0	0	0.65000E-01	44264.0	35657.0	0.0	6.71	1000.00	0.50	0.30	0.00	0.00	0.00
46884	0	0	0	0.21800E+00	22359.0	25253.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
46891	0	0	0	0.30000E-02	22922.0	23905.0	0.0	8.84	1000.00	0.81	0.30	0.00	0.00	0.00
46899	0	0	0	0.49000E-01	26819.0	8706.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46904	0	0	0	0.20000E-01	-18684.0	70434.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
46905	0	0	0	0.34700E+00	14304.0	30143.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
46912	0	0	0	0.34700E+00	13865.0	31364.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
46918	0	0	0	0.17600E+00	17962.0	10150.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46919	0	0	0	0.76000E-01	18631.0	11349.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46924	0	0	0	0.13400E+00	-21118.0	73797.0	0.0	6.71	1000.00	4.93	0.30	0.00	0.00	0.00
46926	0	0	0	0.39000E-01	14416.0	49551.0	0.0	4.57	1000.00	0.38	0.30	0.00	0.00	0.00
46937	0	0	0	0.34700E+00	14801.0	31351.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
46956	0	0	0	0.10500E+00	25017.0	18883.0	0.0	6.71	1000.00	2.86	0.30	0.00	0.00	0.00
46959	0	0	0	0.34700E+00	24971.0	44649.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
46960	0	0	0	0.12900E+00	-17424.0	70457.0	0.0	6.71	1000.00	4.72	0.30	0.00	0.00	0.00
46968	0	0	0	0.29100E+00	21677.0	18178.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
46969	0	0	0	0.41200E+00	22316.0	18784.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
46970	0	0	0	0.19500E+00	20652.0	13742.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
46979	0	0	0	0.33500E+00	22107.0	23015.0	0.0	6.71	1000.00	5.21	0.30	0.00	0.00	0.00
46995	0	0	0	0.47200E+00	19872.0	14155.0	0.0	6.71	1000.00	16.28	0.30	0.00	0.00	0.00
47006	0	0	0	0.12500E+00	27008.0	19609.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47011	0	0	0	0.58800E+00	26162.0	21160.0	0.0	6.71	1000.00	12.28	0.30	0.00	0.00	0.00
47012	0	0	0	0.57000E-01	21191.0	6938.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47014	0	0	0	0.10600E+00	19895.0	11816.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47044	0	0	0	0.70000E-01	-25462.0	71218.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47045	0	0	0	0.54000E-01	27160.0	9567.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47046	0	0	0	0.32000E-01	26073.0	7873.0	0.0	6.71	1000.00	3.96	0.30	0.00	0.00	0.00
47070	0	0	0	0.34700E+00	13625.0	28953.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
47092	0	0	0	0.34000E-01	19109.0	9315.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47096	0	0	0	0.31900E+00	21064.0	21480.0	0.0	6.71	1000.00	7.73	0.30	0.00	0.00	0.00
47098	0	0	0	0.70000E-01	15118.0	49353.0	0.0	4.57	1000.00	1.53	0.30	0.00	0.00	0.00
47104	0	0	0	0.40500E+00	25740.0	21955.0	0.0	6.71	1000.00	11.08	0.30	0.00	0.00	0.00
47118	0	0	0	0.20900E+00	13486.0	30582.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
47120	0	0	0	0.12900E+00	25246.0	9424.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47130	0	0	0	0.28600E+00	27045.0	17380.0	0.0	6.71	1000.00	8.12	0.30	0.00	0.00	0.00
47133	0	0	0	0.63900E+00	47112.0	45129.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
47145	0	0	0	0.87000E-01	26749.0	10341.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47148	0	0	0	0.43500E+00	21406.0	21162.0	0.0	6.71	1000.00	10.53	0.30	0.00	0.00	0.00
47149	0	0	0	0.24100E+00	20663.0	20240.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47154	0	0	0	0.28300E+00	21712.0	18790.0	0.0	6.71	1000.00	7.86	0.30	0.00	0.00	0.00
47155	0	0	0	0.51000E-01	-20399.0	71561.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47165	0	0	0	0.34700E+00	14820.0	30509.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
47206	0	0	0	0.14300E+00	-21693.0	54744.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47210	0	0	0	0.50000E-01	-20326.0	72924.0	0.0	6.71	1000.00	1.85	0.30	0.00	0.00	0.00
47223	0	0	0	0.20600E+00	26627.0	18355.0	0.0	6.10	1000.00	7.41	0.30	0.00	0.00	0.00
47224	0	0	0	0.15900E+00	15076.0	48551.0	0.0	6.71	1000.00	2.73	0.30	0.00	0.00	0.00
47250	0	0	0	0.22400E+00	13942.0	30578.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
47268	0	0	0	0.17800E+00	20240.0	17868.0	0.0	6.71	1000.00	5.69	0.30	0.00	0.00	0.00
47274	0	0	0	0.24100E+00	19126.0	16469.0	0.0	6.71	1000.00	14.66	0.30	0.00	0.00	0.00
47275	0	0	0	0.45100E+00	21045.0	17220.0	0.0	6.71	1000.00	11.78	0.30	0.00	0.00	0.00
47277	0	0	0	0.94000E-01	26703.0	16796.0	0.0	6.71	1000.00	2.03	0.30	0.00	0.00	0.00
47278	0	0	0	0.77000E-01	19416.0	10940.0	0.0	6.71	1000.00	4.35	0.30	0.00	0.00	0.00
47280	0	0	0	0.30900E+00	25514.0	14299.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
47281	0	0	0	0.18000E+00	-19486.0	70922.0	0.0	6.71	1000.00	6.59	0.30	0.00	0.00	0.00
47283	0	0	0	0.16200E+00	26411.0	20554.0	0.0	6.71	1000.00	5.74	0.30	0.00	0.00	0.00
47284	0	0	0	0.14100E+00	25783.0	20458.0	0.0	6.71	1000.00	5.86	0.30	0.00	0.00	0.00
47295	0	0	0	0.22300E+00	18372.0	13913.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47297	0	0	0	0.63900E+00	48161.0	42223.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
47310	0	0	0	0.28200E+00	18340.0	13009.0	0.0	6.71	1000.00	9.02	0.30	0.00	0.00	0.00
47313	0	0	0	0.31700E+00	18361.0	53267.0	0.0	4.57	1000.00	4.69	0.30	0.00	0.00	0.00
47314	0	0	0	0.45700E+00	14640.0	45103.0	0.0	4.57	1000.00	14.72	0.30	0.00	0.00	0.00
47322	0	0	0	0.65400E+00	-25868.0	70747.0	0.0	6.71	1000.00	10.84	0.30	0.00	0.00	0.00
47337	0	0	0	0.10170E+01	28527.0	63540.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
47349	0	0	0	0.22200E+00	26627.0	18355.0	0.0	6.10	1000.00	8.02	0.30	0.00	0.00	0.00
47350	0	0	0	0.26400E+00	26987.0	20367.0	0.0	6.71	1000.00	8.13	0.30	0.00	0.00	0.00
47352	0	0	0	0.20700E+00	26627.0	18355.0	0.0	6.10	1000.00	7.47	0.30	0.00	0.00	0.00
47353	0	0	0	0.19800E+00	26627.0	18355.0	0.0	6.10	1000.00	7.12	0.30	0.00	0.00	0.00
47354	0	0	0	0.18500E+00	27103.0	18887.0	0.0	6.71	1000.00	5.06	0.30	0.00	0.00	0.00
47361	0	0	0	0.11600E+00	23018.0	16207.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47380	0	0	0	0.30100E+00	20826.0	17934.0	0.0	6.71	1000.00	9.62	0.30	0.00	0.00	0.00
47381	0	0	0	0.26000E-01	19149.0	15509.0	0.0	6.71	1000.00	0.91	0.30	0.00	0.00	0.00
47385	0	0	0	0.60000E-02	9968.0	74720.0	0.0	6.71	1000.00	0.18	0.30	0.00	0.00	0.00
47387	0	0	0	0.71100E+00	43914.0	33288.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
47389	0	0	0	0.28600E+00	24174.0	18254.0	0.0	6.71	1000.00	7.82	0.30	0.00	0.00	0.00
47398	0	0	0	0.90000E-02	18319.0	16363.0	0.0	6.71	1000.00	0.33	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
47423	0	0	0	0.19900E+00	-26133.0	66384.0	0.0	6.71	1000.00	4.91	0.30	0.00	0.00	0.00
47426	0	0	0	0.65200E+00	48988.0	41837.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
47432	0	0	0	0.32200E+00	25514.0	14299.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
47438	0	0	0	0.25000E-01	25286.0	7108.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47439	0	0	0	0.20900E+00	14974.0	29860.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
47446	0	0	0	0.35000E+00	18552.0	14615.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47447	0	0	0	0.69400E+00	20731.0	15420.0	0.0	6.71	1000.00	19.65	0.30	0.00	0.00	0.00
47452	0	0	0	0.14200E+00	20235.0	18568.0	0.0	6.71	1000.00	3.61	0.30	0.00	0.00	0.00
47459	0	0	0	0.76000E-01	26064.0	8393.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47463	0	0	0	0.18700E+00	25627.0	22710.0	0.0	6.71	1000.00	4.37	0.30	0.00	0.00	0.00
47465	0	0	0	0.38000E-01	23158.0	14596.0	0.0	6.71	1000.00	1.23	0.30	0.00	0.00	0.00
47476	0	0	0	0.44000E-01	25632.0	15672.0	0.0	6.71	1000.00	0.94	0.30	0.00	0.00	0.00
47479	0	0	0	0.65600E+00	27738.0	57627.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
47481	0	0	0	0.21100E+00	18029.0	54061.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
47483	0	0	0	0.16600E+00	15790.0	48873.0	0.0	6.71	1000.00	2.73	0.30	0.00	0.00	0.00
47485	0	0	0	0.39600E+00	19403.0	18565.0	0.0	6.71	1000.00	15.07	0.30	0.00	0.00	0.00
47494	0	0	0	0.25600E+00	10275.0	57761.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
47495	0	0	0	0.55000E-01	10342.0	57263.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
47496	0	0	0	0.51100E+00	18251.0	57202.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
47499	0	0	0	0.93000E-01	27066.0	16339.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47505	0	0	0	0.34000E+00	25063.0	15902.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47510	0	0	0	0.31900E+00	20708.0	12284.0	0.0	6.71	1000.00	10.19	0.30	0.00	0.00	0.00
47511	0	0	0	0.14000E-01	-749.0	77173.0	0.0	6.71	1000.00	6.09	0.30	0.00	0.00	0.00
47514	0	0	0	0.92000E-01	24753.0	14740.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
47523	0	0	0	0.27800E+00	25514.0	14299.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
47524	0	0	0	0.37900E+00	25514.0	14299.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
47529	0	0	0	0.29100E+00	22550.0	17473.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47538	0	0	0	0.11000E-01	18734.0	8887.0	0.0	6.71	1000.00	0.64	0.30	0.00	0.00	0.00
47544	0	0	0	0.14800E+00	21667.0	16571.0	0.0	6.71	1000.00	6.82	0.30	0.00	0.00	0.00
47549	0	0	0	0.98000E-01	-17663.0	58437.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47562	0	0	0	0.11900E+00	24442.0	5435.0	0.0	6.71	1000.00	7.58	0.30	0.00	0.00	0.00
47563	0	0	0	0.34600E+00	22302.0	19545.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47567	0	0	0	0.52300E+00	6888.0	37261.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
47573	0	0	0	0.85000E-01	-16116.0	64369.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
47583	0	0	0	0.63900E+00	48172.0	40576.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
47623	0	0	0	0.10100E+00	20515.0	19566.0	0.0	6.71	1000.00	3.22	0.30	0.00	0.00	0.00
47627	0	0	0	0.22000E-01	18412.0	18597.0	0.0	6.71	1000.00	0.69	0.30	0.00	0.00	0.00
47645	0	0	0	0.32300E+00	22106.0	20228.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47659	0	0	0	0.63900E+00	47790.0	39793.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	AK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
47668	0	0	0	0.10000E-01	18073.0	5880.0	0.0	6.71	1000.00	1.09	0.30	0.00	0.00	0.00
47675	0	0	0	0.86000E-01	26078.0	23573.0	0.0	6.71	1000.00	0.95	0.30	0.00	0.00	0.00
47705	0	0	0	0.16500E+00	16465.0	49414.0	0.0	6.71	1000.00	2.72	0.30	0.00	0.00	0.00
47722	0	0	0	0.32900E+00	22764.0	14288.0	0.0	6.71	1000.00	7.45	0.30	0.00	0.00	0.00
47725	0	0	0	0.54000E-01	-17740.0	63697.0	0.0	6.71	1000.00	1.98	0.30	0.00	0.00	0.00
47732	0	0	0	0.23900E+00	22333.0	14609.0	0.0	6.71	1000.00	7.41	0.30	0.00	0.00	0.00
47742	0	0	0	0.16200E+00	19780.0	15822.0	0.0	6.71	1000.00	4.89	0.30	0.00	0.00	0.00
47752	0	0	0	0.18900E+00	-25756.0	70006.0	0.0	6.71	1000.00	6.91	0.30	0.00	0.00	0.00
47754	0	0	0	0.20700E+00	18338.0	15760.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47759	0	0	0	0.34800E+00	21311.0	19677.0	0.0	6.71	1000.00	10.96	0.30	0.00	0.00	0.00
47775	0	0	0	0.14000E+00	25840.0	13482.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47776	0	0	0	0.18400E+00	26789.0	12284.0	0.0	6.71	1000.00	3.42	0.30	0.00	0.00	0.00
47779	0	0	0	0.61000E-01	11014.0	65450.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
47798	0	0	0	0.13300E+00	43513.0	34850.0	0.0	6.71	1000.00	0.86	0.30	0.00	0.00	0.00
47802	0	0	0	0.10400E+00	17814.0	18537.0	0.0	6.71	1000.00	6.04	0.30	0.00	0.00	0.00
47803	0	0	0	0.94000E-01	-15633.0	56086.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47813	0	0	0	0.38400E+00	27159.0	14195.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47814	0	0	0	0.34000E+00	27135.0	15085.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47823	0	0	0	0.16400E+00	18934.0	61668.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
47829	0	0	0	0.15200E+00	18653.0	16915.0	0.0	6.71	1000.00	5.89	0.30	0.00	0.00	0.00
47833	0	0	0	0.52300E+00	6910.0	42102.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
47878	0	0	0	0.29100E+00	19849.0	19408.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47893	0	0	0	0.16400E+00	20267.0	13355.0	0.0	6.71	1000.00	4.90	0.30	0.00	0.00	0.00
47921	0	0	0	0.50700E+00	22860.0	23139.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47934	0	0	0	0.70000E-02	27035.0	18032.0	0.0	6.71	1000.00	7.88	0.30	0.00	0.00	0.00
47944	0	0	0	0.78000E-01	10585.0	66738.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
47970	0	0	0	0.39900E+00	23821.0	16234.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47998	0	0	0	0.41000E-01	-24996.0	70023.0	0.0	6.71	1000.00	0.67	0.30	0.00	0.00	0.00
48004	0	0	0	0.52400E+00	49881.0	44389.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
48006	0	0	0	0.28000E-01	19256.0	6565.0	0.0	6.71	1000.00	1.56	0.30	0.00	0.00	0.00
48007	0	0	0	0.52300E+00	7486.0	37579.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48008	0	0	0	0.52300E+00	7585.0	37004.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48024	0	0	0	0.66600E+00	14253.0	32790.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48043	0	0	0	0.72000E-01	22998.0	15615.0	0.0	6.71	1000.00	2.47	0.30	0.00	0.00	0.00
48053	0	0	0	0.21700E+00	17691.0	12914.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48054	0	0	0	0.21700E+00	17511.0	12357.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48070	0	0	0	0.18240E+01	2218.0	35911.0	0.0	6.71	1000.00	15.28	0.30	0.00	0.00	0.00
48116	0	0	0	0.34000E+00	24764.0	16315.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48128	0	0	0	0.85000E+00	15499.0	36173.0	0.0	6.71	1000.00	15.95	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	AVG TIME	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
48162	0	0	0	0.72000E-01	14375.0	47280.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
48168	0	0	0	0.63900E+00	48595.0	39812.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48173	0	0	0	0.16000E-01	25296.0	5289.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
48190	0	0	0	0.29100E+00	17847.0	13982.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48192	0	0	0	0.52300E+00	6960.0	37969.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48202	0	0	0	0.45700E+00	51591.0	29807.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
48207	0	0	0	0.13300E+00	-18467.0	58028.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
48214	0	0	0	0.30000E-01	26444.0	6785.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
48218	0	0	0	0.52600E+00	-11829.0	61656.0	0.0	6.71	1000.00	10.85	0.30	0.00	0.00	0.00
48234	0	0	0	0.14070E+01	2642.0	35468.0	0.0	6.71	1000.00	15.50	0.30	0.00	0.00	0.00
48238	0	0	0	0.76000E-01	-13021.0	60483.0	0.0	6.71	1000.00	1.88	0.30	0.00	0.00	0.00
48252	0	0	0	0.97000E-01	16963.0	18565.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
48254	0	0	0	0.72000E-01	21479.0	13425.0	0.0	6.71	1000.00	2.77	0.30	0.00	0.00	0.00
48271	0	0	0	0.79900E+00	50295.0	43633.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48273	0	0	0	0.19000E-01	16298.0	7271.0	0.0	6.71	1000.00	1.05	0.30	0.00	0.00	0.00
48277	0	0	0	0.63900E+00	49866.0	45216.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48280	0	0	0	0.30000E-01	16773.0	5977.0	0.0	6.71	1000.00	4.18	0.30	0.00	0.00	0.00
48281	0	0	0	0.19000E-01	16141.0	6445.0	0.0	6.71	1000.00	1.29	0.30	0.00	0.00	0.00
48282	0	0	0	0.27700E+00	16932.0	6656.0	0.0	6.71	1000.00	12.90	0.30	0.00	0.00	0.00
48290	0	0	0	0.15200E+00	17816.0	17743.0	0.0	6.71	1000.00	5.87	0.30	0.00	0.00	0.00
48309	0	0	0	0.63900E+00	49027.0	44433.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48325	0	0	0	0.39900E+00	24258.0	15909.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48330	0	0	0	0.16600E+00	26348.0	13569.0	0.0	6.71	1000.00	4.55	0.30	0.00	0.00	0.00
48333	0	0	0	0.82000E-01	25129.0	13464.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
48347	0	0	0	0.68700E+00	49828.0	43874.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48370	0	0	0	0.63900E+00	49054.0	43962.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48385	0	0	0	0.19000E-01	18641.0	6678.0	0.0	6.71	1000.00	1.08	0.30	0.00	0.00	0.00
48386	0	0	0	0.21000E-01	19186.0	5962.0	0.0	6.71	1000.00	1.19	0.30	0.00	0.00	0.00
48388	0	0	0	0.13000E-01	18620.0	6099.0	0.0	6.71	1000.00	0.78	0.30	0.00	0.00	0.00
48404	0	0	0	0.13550E+01	-21294.0	63169.0	0.0	6.71	1000.00	49.61	0.30	0.00	0.00	0.00
48422	0	0	0	0.66100E+00	15699.0	37021.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
48429	0	0	0	0.46300E+00	14896.0	35950.0	0.0	6.71	1000.00	7.65	0.30	0.00	0.00	0.00
48430	0	0	0	0.48400E+00	14227.0	34551.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
48432	0	0	0	0.61000E-01	25923.0	9288.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48436	0	0	0	0.79900E+00	50481.0	44556.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48437	0	0	0	0.33000E-01	25158.0	6247.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
48469	0	0	0	0.15200E+00	43103.0	34415.0	0.0	6.71	1000.00	1.18	0.30	0.00	0.00	0.00
48472	0	0	0	0.52300E+00	7381.0	41971.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48476	0	0	0	0.19400E+00	45157.0	33321.0	0.0	6.71	1000.00	1.51	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
48484	0	0	0	0.27300E+00	9361.0	62197.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
48490	0	0	0	0.51200E+00	14778.0	34592.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48542	0	0	0	0.10000E-02	9970.0	40183.0	0.0	6.71	1000.00	0.07	0.30	0.00	0.00	0.00
48554	0	0	0	0.80000E-02	25066.0	16037.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48564	0	0	0	0.59800E+00	11383.0	41326.0	0.0	10.67	1000.00	9.30	0.30	0.00	0.00	0.00
48579	0	0	0	0.20900E+00	14143.0	33754.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
48580	0	0	0	0.20300E+00	-20172.0	65962.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
48588	0	0	0	0.35300E+00	50742.0	43149.0	0.0	6.71	1000.00	3.02	0.30	0.00	0.00	0.00
48651	0	0	0	0.52000E-01	11383.0	41326.0	0.0	10.67	1000.00	9.30	0.30	0.00	0.00	0.00
48668	0	0	0	0.90000E-01	10848.0	57271.0	0.0	6.71	1000.00	3.12	0.30	0.00	0.00	0.00
48671	0	0	0	0.53500E+00	14172.0	34577.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
48677	0	0	0	0.59000E+00	44399.0	34143.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48710	0	0	0	0.97100E+00	10167.0	40922.0	0.0	6.71	1000.00	15.10	0.30	0.00	0.00	0.00
48717	0	0	0	0.30000E-02	2546.0	81828.0	0.0	6.71	1000.00	2.80	0.30	0.00	0.00	0.00
48726	0	0	0	0.10510E+01	43298.0	49845.0	0.0	7.62	1000.00	9.30	0.30	0.00	0.00	0.00
48737	0	0	0	0.11100E+00	-805.0	70151.0	0.0	8.53	1000.00	3.54	0.30	0.00	0.00	0.00
48811	0	0	0	0.13800E+00	15313.0	48209.0	0.0	6.71	1000.00	2.56	0.30	0.00	0.00	0.00
48827	0	0	0	0.12000E-01	25962.0	6625.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
48853	0	0	0	0.66100E+00	15502.0	35741.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
48854	0	0	0	0.16200E+00	15671.0	48090.0	0.0	6.71	1000.00	2.65	0.30	0.00	0.00	0.00
48855	0	0	0	0.46000E+00	19402.0	12611.0	0.0	6.71	1000.00	14.69	0.30	0.00	0.00	0.00
48902	0	0	0	0.93000E-01	-16432.0	55653.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
48911	0	0	0	0.72400E+00	48270.0	36190.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48924	0	0	0	0.63600E+00	50147.0	43025.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48927	0	0	0	0.13100E+00	43143.0	33914.0	0.0	6.71	1000.00	1.02	0.30	0.00	0.00	0.00
48929	0	0	0	0.17500E+00	14832.0	32259.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
48937	0	0	0	0.47100E+00	18326.0	56898.0	0.0	4.57	1000.00	8.74	0.30	0.00	0.00	0.00
48948	0	0	0	0.53000E-01	25267.0	4683.0	0.0	3.66	1000.00	10.69	0.30	0.00	0.00	0.00
48958	0	0	0	0.59000E-01	24555.0	4674.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
49000	0	0	0	0.70900E+00	51061.0	43574.0	0.0	7.62	1000.00	6.20	0.30	0.00	0.00	0.00
49007	0	0	0	0.97600E+00	10088.0	41837.0	0.0	6.71	1000.00	15.18	0.30	0.00	0.00	0.00
49078	0	0	0	0.10490E+01	3027.0	35938.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49113	0	0	0	0.20800E+00	14162.0	33650.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
49127	0	0	0	0.11600E+00	11383.0	41326.0	0.0	10.67	1000.00	9.30	0.30	0.00	0.00	0.00
49153	0	0	0	0.75100E+00	49055.0	37014.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49154	0	0	0	0.63900E+00	47812.0	36532.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49162	0	0	0	0.12340E+01	42981.0	63819.0	0.0	4.27	1000.00	6.12	0.30	0.00	0.00	0.00
49182	0	0	0	0.19900E+00	13181.0	34741.0	0.0	6.71	1000.00	3.73	0.30	0.00	0.00	0.00
49183	0	0	0	0.32700E+00	12331.0	34673.0	0.0	6.71	1000.00	6.13	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
49187	0	0	0	0.63900E+00	47111.0	35794.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49188	0	0	0	0.63900E+00	47104.0	36403.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49190	0	0	0	0.62500E+00	48229.0	35674.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
49195	0	0	0	0.66200E+00	51851.0	37094.0	0.0	6.71	1000.00	4.99	0.30	0.00	0.00	0.00
49196	0	0	0	0.63900E+00	47720.0	35807.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49214	0	0	0	0.40800E+00	13393.0	35442.0	0.0	6.71	1000.00	10.46	0.30	0.00	0.00	0.00
49215	0	0	0	0.37500E+00	13407.0	36140.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
49216	0	0	0	0.60400E+00	12647.0	35525.0	0.0	6.71	1000.00	9.73	0.30	0.00	0.00	0.00
49220	0	0	0	0.32700E+00	-12414.0	60369.0	0.0	6.71	1000.00	6.22	0.30	0.00	0.00	0.00
49225	0	0	0	0.63900E+00	50129.0	42270.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49231	0	0	0	0.93200E+00	51254.0	43166.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
49253	0	0	0	0.55000E-01	10715.0	58042.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
49262	0	0	0	0.96000E-01	19909.0	10516.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
49276	0	0	0	0.31600E+00	9360.0	62704.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
49290	0	0	0	0.40500E+00	-21403.0	68796.0	0.0	6.71	1000.00	10.84	0.30	0.00	0.00	0.00
49295	0	0	0	0.24000E+00	13345.0	37712.0	0.0	9.75	1000.00	4.89	0.30	0.00	0.00	0.00
49312	0	0	0	0.30900E+00	26674.0	18311.0	0.0	6.10	1000.00	11.15	0.30	0.00	0.00	0.00
49369	0	0	0	0.19600E+00	26627.0	18355.0	0.0	6.10	1000.00	7.08	0.30	0.00	0.00	0.00
49371	0	0	0	0.37100E+00	20572.0	16158.0	0.0	6.71	1000.00	9.68	0.30	0.00	0.00	0.00
49389	0	0	0	0.40000E-02	26162.0	4679.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
49410	0	0	0	0.18310E+01	47677.0	16446.0	0.0	6.71	1000.00	11.00	0.30	0.00	0.00	0.00
49421	0	0	0	0.35100E+00	50682.0	42328.0	0.0	6.71	1000.00	2.80	0.30	0.00	0.00	0.00
49426	0	0	0	0.84000E-01	9964.0	39461.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49428	0	0	0	0.25000E+00	14070.0	32531.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
49444	0	0	0	0.37800E+00	17002.0	12529.0	0.0	6.71	1000.00	12.07	0.30	0.00	0.00	0.00
49514	0	0	0	0.11200E+00	15136.0	8794.0	0.0	6.71	1000.00	10.85	0.30	0.00	0.00	0.00
49531	0	0	0	0.63900E+00	47812.0	37042.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49552	0	0	0	0.63900E+00	52262.0	36703.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49553	0	0	0	0.53800E+00	50960.0	41494.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
49561	0	0	0	0.23300E+00	13383.0	37758.0	0.0	9.75	1000.00	4.75	0.30	0.00	0.00	0.00
49567	0	0	0	0.41200E+00	14172.0	34577.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
49577	0	0	0	0.72900E+00	14761.0	37793.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49578	0	0	0	0.46100E+00	14217.0	37760.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49581	0	0	0	0.43200E+00	12410.0	37431.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49582	0	0	0	0.76600E+00	49071.0	36209.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
49585	0	0	0	0.41200E+00	14172.0	34577.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
49594	0	0	0	0.69000E-01	15056.0	42501.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
49607	0	0	0	0.10740E+01	13048.0	39849.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49609	0	0	0	0.49000E-01	26399.0	10722.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
49626	0	0	0	0.30500E+00	13345.0	37712.0	0.0	9.75	1000.00	6.20	0.30	0.00	0.00	0.00
49641	0	0	0	0.66100E+00	16660.0	38360.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49643	0	0	0	0.52000E-01	14066.0	48927.0	0.0	4.57	1000.00	0.62	0.30	0.00	0.00	0.00
49646	0	0	0	0.50000E-02	25993.0	6117.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49691	0	0	0	0.63900E+00	47030.0	36926.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49743	0	0	0	0.56500E+00	14259.0	36157.0	0.0	6.71	1000.00	10.59	0.30	0.00	0.00	0.00
49748	0	0	0	0.39900E+00	50698.0	35453.0	0.0	8.84	1000.00	6.20	0.30	0.00	0.00	0.00
49749	0	0	0	0.47400E+00	49088.0	35402.0	0.0	7.62	1000.00	6.51	0.30	0.00	0.00	0.00
49756	0	0	0	0.66100E+00	15054.0	36989.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49772	0	0	0	0.20900E+00	13345.0	37712.0	0.0	9.75	1000.00	4.25	0.30	0.00	0.00	0.00
49787	0	0	0	0.10920E+01	47634.0	34830.0	0.0	6.71	1000.00	6.29	0.30	0.00	0.00	0.00
49799	0	0	0	0.10500E+00	44293.0	56681.0	0.0	6.71	1000.00	0.81	0.30	0.00	0.00	0.00
49827	0	0	0	0.57000E-01	-17320.0	63215.0	0.0	6.71	1000.00	2.10	0.30	0.00	0.00	0.00
49856	0	0	0	0.65000E-01	14930.0	38562.0	0.0	6.71	1000.00	1.07	0.30	0.00	0.00	0.00
49862	0	0	0	0.35600E+00	22762.0	27079.0	0.0	6.71	1000.00	8.10	0.30	0.00	0.00	0.00
49865	0	0	0	0.76000E-01	14588.0	46593.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
49889	0	0	0	0.52300E+00	6291.0	42120.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
49900	0	0	0	0.66100E+00	11543.0	36041.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49990	0	0	0	0.49600E+00	13413.0	38983.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
50056	0	0	0	0.11310E+01	48332.0	34678.0	0.0	6.71	1000.00	6.12	0.30	0.00	0.00	0.00
50065	0	0	0	0.84000E-01	10437.0	40687.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
50079	0	0	0	0.68700E+00	50295.0	36228.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
50106	0	0	0	0.22500E+00	26627.0	18355.0	0.0	6.10	1000.00	8.11	0.30	0.00	0.00	0.00
50120	0	0	0	0.41000E-01	15099.0	10006.0	0.0	6.71	1000.00	2.34	0.30	0.00	0.00	0.00
50146	0	0	0	0.16200E+00	48072.0	16464.0	0.0	6.71	1000.00	0.98	0.30	0.00	0.00	0.00
50168	0	0	0	0.13300E+00	47057.0	34697.0	0.0	6.71	1000.00	1.03	0.30	0.00	0.00	0.00
50178	0	0	0	0.67400E+00	12129.0	37738.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
50188	0	0	0	0.79900E+00	50302.0	35039.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50191	0	0	0	0.30000E-02	25177.0	3829.0	0.0	7.62	1000.00	0.49	0.30	0.00	0.00	0.00
50201	0	0	0	0.33000E-01	19708.0	11341.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
50207	0	0	0	0.79900E+00	50193.0	35539.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50213	0	0	0	0.63900E+00	48551.0	37000.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
50215	0	0	0	0.49600E+00	13892.0	38540.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
50217	0	0	0	0.55000E-01	-16917.0	62460.0	0.0	6.71	1000.00	1.53	0.30	0.00	0.00	0.00
50229	0	0	0	0.52000E+00	14271.0	32901.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
50267	0	0	0	0.22000E-01	25199.0	1939.0	0.0	7.62	1000.00	2.57	0.30	0.00	0.00	0.00
50276	0	0	0	0.79900E+00	51429.0	35472.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50303	0	0	0	0.66100E+00	15438.0	37770.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
50306	0	0	0	0.14600E+00	26497.0	7539.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYP E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
50375	0	0	0	0.76000E-01	17139.0	13052.0	0.0	6.71	1000.00	2.42	0.30	0.00	0.00	0.00
50418	0	0	0	0.81000E-01	19114.0	17274.0	0.0	6.71	1000.00	2.60	0.30	0.00	0.00	0.00
50460	0	0	0	0.45300E+00	18314.0	54898.0	0.0	4.57	1000.00	8.81	0.30	0.00	0.00	0.00
50485	0	0	0	0.85100E+00	27053.0	57506.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
50515	0	0	0	0.19000E+00	16718.0	80063.0	0.0	6.71	1000.00	5.78	0.30	0.00	0.00	0.00
50516	0	0	0	0.80000E-02	24695.0	1818.0	0.0	7.62	1000.00	0.53	0.30	0.00	0.00	0.00
50520	0	0	0	0.78300E+00	47233.0	29391.0	0.0	6.71	1000.00	6.08	0.30	0.00	0.00	0.00
50576	0	0	0	0.41800E+00	8364.0	36400.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
50585	0	0	0	0.11000E-01	24309.0	2645.0	0.0	7.62	1000.00	2.05	0.30	0.00	0.00	0.00
50603	0	0	0	0.15970E+01	47054.0	28393.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
50610	0	0	0	0.23300E+00	20178.0	16341.0	0.0	6.71	1000.00	7.45	0.30	0.00	0.00	0.00
50669	0	0	0	0.48600E+00	47599.0	28903.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
50713	0	0	0	0.41800E+00	8650.0	35602.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
50821	0	0	0	0.15970E+01	47055.0	27481.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
50843	0	0	0	0.50000E-02	25209.0	3049.0	0.0	7.62	1000.00	0.86	0.30	0.00	0.00	0.00
50868	0	0	0	0.12200E+00	14716.0	39438.0	0.0	6.71	1000.00	1.91	0.30	0.00	0.00	0.00
50877	0	0	0	0.18300E+00	24755.0	17789.0	0.0	6.71	1000.00	5.01	0.30	0.00	0.00	0.00
50915	0	0	0	0.25000E+00	13225.0	36298.0	0.0	9.75	1000.00	6.20	0.30	0.00	0.00	0.00
50951	0	0	0	0.20000E-02	-1114.0	64348.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
51079	0	0	0	0.73300E+00	14735.0	36199.0	0.0	6.71	1000.00	13.74	0.30	0.00	0.00	0.00
51116	0	0	0	0.63900E+00	46541.0	27320.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
51171	0	0	0	0.15970E+01	46414.0	28469.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
51178	0	0	0	0.52000E+00	8565.0	45607.0	0.0	4.57	1000.00	9.52	0.30	0.00	0.00	0.00
51231	0	0	0	0.31900E+00	9007.0	35998.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
51240	0	0	0	0.10200E+00	14961.0	40231.0	0.0	6.71	1000.00	1.91	0.30	0.00	0.00	0.00
51313	0	0	0	0.14100E+00	24187.0	61137.0	0.0	6.71	1000.00	5.49	0.30	0.00	0.00	0.00
51360	0	0	0	0.49500E+00	46484.0	28970.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
51417	0	0	0	0.50000E-02	-12449.0	-4676.0	0.0	6.71	1000.00	1.90	0.30	0.00	0.00	0.00
51521	0	0	0	0.79900E+00	51012.0	34393.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
51564	0	0	0	0.12300E+00	9881.0	74064.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
51581	0	0	0	0.58000E-01	26575.0	11664.0	0.0	6.71	1000.00	2.48	0.30	0.00	0.00	0.00
51634	0	0	0	0.12900E+00	18571.0	12555.0	0.0	6.71	1000.00	4.11	0.30	0.00	0.00	0.00
51664	0	0	0	0.23000E-01	8587.0	65142.0	0.0	7.62	1000.00	0.83	0.30	0.00	0.00	0.00
51752	0	0	0	0.25500E+00	27116.0	56990.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
51784	0	0	0	0.41800E+00	7868.0	35187.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
51817	0	0	0	0.42600E+00	13672.0	46337.0	0.0	8.23	1000.00	4.96	0.30	0.00	0.00	0.00
51818	0	0	0	0.76000E-01	13910.0	47246.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
51821	0	0	0	0.40700E+00	15839.0	48749.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
51841	0	0	0	0.72300E+00	27919.0	57033.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
51865	0	0	0	0.65300E+00	27132.0	56252.0	0.0	6.71	1000.00	8.68	0.30	0.00	0.00	0.00
51944	0	0	0	0.50000E-02	25273.0	7611.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
52048	0	0	0	0.12000E+00	11986.0	38975.0	0.0	6.71	1000.00	13.34	0.30	0.00	0.00	0.00
52054	0	0	0	0.80000E-02	25683.0	-12196.0	0.0	6.71	1000.00	3.94	0.30	0.00	0.00	0.00
52124	0	0	0	0.26400E+00	26627.0	18355.0	0.0	6.10	1000.00	6.02	0.30	0.00	0.00	0.00
52163	0	0	0	0.39800E+00	8533.0	43085.0	0.0	4.57	1000.00	8.86	0.30	0.00	0.00	0.00
52178	0	0	0	0.60000E-02	26333.0	-10272.0	0.0	3.05	1000.00	3.32	0.30	0.00	0.00	0.00
52179	0	0	0	0.10000E-02	26515.0	-12054.0	0.0	6.71	1000.00	2.07	0.30	0.00	0.00	0.00
52315	0	0	0	0.30000E-02	31803.0	-9582.0	0.0	6.71	1000.00	3.51	0.30	0.00	0.00	0.00
65168	0	0	0	0.89000E-01	13191.0	42464.0	0.0	3.05	1000.00	1.72	0.30	0.00	0.00	0.00
66083	0	0	0	0.49000E-01	14498.0	47976.0	0.0	0.30	1000.00	0.78	0.30	0.00	0.00	0.00
66258	0	0	0	0.84000E-01	13522.0	29309.0	0.0	3.05	1000.00	1.51	0.30	0.00	0.00	0.00
66310	0	0	0	0.18000E-01	10913.0	41733.0	0.0	3.05	1000.00	1.96	0.30	0.00	0.00	0.00
66403	0	0	0	0.11200E+00	14066.0	48927.0	0.0	0.30	1000.00	1.67	0.30	0.00	0.00	0.00
66552	0	0	0	0.58000E-01	15118.0	49353.0	0.0	0.30	1000.00	1.08	0.30	0.00	0.00	0.00
66566	0	0	0	0.13700E+00	14416.0	49551.0	0.0	0.30	1000.00	2.12	0.30	0.00	0.00	0.00
66602	0	0	0	0.72500E+00	20388.0	8153.0	0.0	0.30	1000.00	22.33	0.30	0.00	0.00	0.00
66698	0	0	0	0.35000E-01	18305.0	53269.0	0.0	0.30	1000.00	0.58	0.30	0.00	0.00	0.00
66856	0	0	0	0.47000E-01	13525.0	30098.0	0.0	3.05	1000.00	0.83	0.30	0.00	0.00	0.00
66905	0	0	0	0.15600E+00	14304.0	30143.0	0.0	3.05	1000.00	2.80	0.30	0.00	0.00	0.00
66912	0	0	0	0.19000E-01	13865.0	31364.0	0.0	3.05	1000.00	0.33	0.30	0.00	0.00	0.00
66926	0	0	0	0.10000E-01	14416.0	49551.0	0.0	0.30	1000.00	0.10	0.30	0.00	0.00	0.00
66937	0	0	0	0.71000E-01	14801.0	31351.0	0.0	3.05	1000.00	1.27	0.30	0.00	0.00	0.00
66959	0	0	0	0.83650E+01	24971.0	44649.0	0.0	6.10	1000.00	55.41	0.30	0.00	0.00	0.00
66960	0	0	0	0.64000E-01	-17424.0	70457.0	0.0	3.05	1000.00	2.35	0.30	0.00	0.00	0.00
66970	0	0	0	0.50000E-02	20652.0	13742.0	0.0	3.05	1000.00	0.24	0.30	0.00	0.00	0.00
67012	0	0	0	0.26000E+00	21191.0	6938.0	0.0	3.05	1000.00	16.98	0.30	0.00	0.00	0.00
67070	0	0	0	0.42000E-01	13625.0	28953.0	0.0	3.05	1000.00	0.75	0.30	0.00	0.00	0.00
67098	0	0	0	0.12000E-01	15118.0	49353.0	0.0	0.30	1000.00	0.26	0.30	0.00	0.00	0.00
67118	0	0	0	0.60000E-02	13486.0	30582.0	0.0	3.05	1000.00	0.10	0.30	0.00	0.00	0.00
67149	0	0	0	0.20000E-02	20663.0	20240.0	0.0	3.05	1000.00	0.07	0.30	0.00	0.00	0.00
67165	0	0	0	0.74000E-01	14820.0	30509.0	0.0	3.05	1000.00	1.33	0.30	0.00	0.00	0.00
67224	0	0	0	0.43000E-01	15076.0	48551.0	0.0	3.05	1000.00	0.75	0.30	0.00	0.00	0.00
67250	0	0	0	0.34000E-01	13942.0	30578.0	0.0	3.05	1000.00	0.56	0.30	0.00	0.00	0.00
67277	0	0	0	0.10000E-02	26703.0	16796.0	0.0	0.30	1000.00	0.02	0.30	0.00	0.00	0.00
67295	0	0	0	0.40000E-02	18372.0	13913.0	0.0	3.05	1000.00	0.18	0.30	0.00	0.00	0.00
67313	0	0	0	0.37000E-01	18361.0	53267.0	0.0	0.30	1000.00	0.55	0.30	0.00	0.00	0.00
67314	0	0	0	0.48000E-01	14640.0	45103.0	0.0	0.30	1000.00	1.52	0.30	0.00	0.00	0.00
67337	0	0	0	0.13920E+01	28527.0	63540.0	0.0	6.10	1000.00	14.42	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
67354	0	0	0	0.24000E-01	27103.0	18887.0	0.0	3.05	1000.00	0.66	0.30	0.00	0.00	0.00
67387	0	0	0	0.57000E-01	43914.0	33288.0	0.0	3.05	1000.00	0.50	0.30	0.00	0.00	0.00
67439	0	0	0	0.24000E-01	14974.0	29860.0	0.0	3.05	1000.00	0.43	0.30	0.00	0.00	0.00
67446	0	0	0	0.50000E-01	18552.0	14615.0	0.0	3.05	1000.00	1.33	0.30	0.00	0.00	0.00
67465	0	0	0	0.10000E-02	23158.0	14596.0	0.0	3.05	1000.00	0.04	0.30	0.00	0.00	0.00
67483	0	0	0	0.20000E-01	15790.0	48873.0	0.0	3.05	1000.00	0.33	0.30	0.00	0.00	0.00
67512	0	0	0	0.70000E-02	10969.0	56529.0	0.0	3.05	1000.00	0.39	0.30	0.00	0.00	0.00
67514	0	0	0	0.30000E-02	24753.0	14740.0	0.0	0.30	1000.00	0.09	0.30	0.00	0.00	0.00
67529	0	0	0	0.60000E-02	22550.0	17473.0	0.0	3.05	1000.00	0.20	0.30	0.00	0.00	0.00
67567	0	0	0	0.20000E-02	6888.0	37261.0	0.0	3.05	1000.00	0.02	0.30	0.00	0.00	0.00
67645	0	0	0	0.10000E-02	22106.0	20228.0	0.0	3.05	1000.00	0.03	0.30	0.00	0.00	0.00
67705	0	0	0	0.80000E-02	16465.0	49414.0	0.0	3.05	1000.00	0.14	0.30	0.00	0.00	0.00
67725	0	0	0	0.66000E-01	-17740.0	63697.0	0.0	3.05	1000.00	2.43	0.30	0.00	0.00	0.00
67779	0	0	0	0.51000E-01	11014.0	65450.0	0.0	3.05	1000.00	2.57	0.30	0.00	0.00	0.00
67813	0	0	0	0.78000E-01	27159.0	14195.0	0.0	3.05	1000.00	1.88	0.30	0.00	0.00	0.00
67814	0	0	0	0.23000E-01	27135.0	15085.0	0.0	3.05	1000.00	0.63	0.30	0.00	0.00	0.00
67823	0	0	0	0.15370E+01	18934.0	61668.0	0.0	3.05	1000.00	58.12	0.30	0.00	0.00	0.00
67878	0	0	0	0.30000E-02	19849.0	19408.0	0.0	3.05	1000.00	0.09	0.30	0.00	0.00	0.00
67947	0	0	0	0.65000E-01	-24270.0	69060.0	0.0	3.05	1000.00	3.14	0.30	0.00	0.00	0.00
68007	0	0	0	0.11000E-01	7486.0	37579.0	0.0	3.05	1000.00	0.13	0.30	0.00	0.00	0.00
68008	0	0	0	0.20000E-02	7585.0	37004.0	0.0	3.05	1000.00	0.03	0.30	0.00	0.00	0.00
68024	0	0	0	0.72000E-01	14253.0	32790.0	0.0	3.05	1000.00	1.00	0.30	0.00	0.00	0.00
68053	0	0	0	0.50000E-02	17691.0	12914.0	0.0	3.05	1000.00	0.20	0.30	0.00	0.00	0.00
68054	0	0	0	0.10000E-02	17511.0	12357.0	0.0	3.05	1000.00	0.05	0.30	0.00	0.00	0.00
68075	0	0	0	0.17000E-01	13697.0	20486.0	0.0	3.05	1000.00	1.43	0.30	0.00	0.00	0.00
68162	0	0	0	0.44000E-01	14375.0	47280.0	0.0	3.05	1000.00	0.77	0.30	0.00	0.00	0.00
68192	0	0	0	0.40000E-02	6960.0	37969.0	0.0	3.05	1000.00	0.05	0.30	0.00	0.00	0.00
68202	0	0	0	0.17020E+01	51591.0	29807.0	0.0	0.30	1000.00	13.84	0.30	0.00	0.00	0.00
68271	0	0	0	0.34800E+00	50295.0	43633.0	0.0	3.05	1000.00	2.70	0.30	0.00	0.00	0.00
68291	0	0	0	0.59000E-01	7038.0	36394.0	0.0	3.05	1000.00	0.55	0.30	0.00	0.00	0.00
68340	0	0	0	0.17400E+01	14541.0	48352.0	0.0	9.14	1000.00	3.10	0.30	0.00	0.00	0.00
68454	0	0	0	0.39000E-01	-22691.0	69649.0	0.0	3.05	1000.00	1.90	0.30	0.00	0.00	0.00
68484	0	0	0	0.61000E-01	9361.0	62197.0	0.0	3.05	1000.00	2.36	0.30	0.00	0.00	0.00
68579	0	0	0	0.53000E-01	14143.0	33754.0	0.0	3.05	1000.00	0.95	0.30	0.00	0.00	0.00
68671	0	0	0	0.14010E+01	14172.0	34577.0	0.0	2.44	1000.00	24.39	0.30	0.00	0.00	0.00
68717	0	0	0	0.18000E-01	2546.0	81828.0	0.0	0.30	1000.00	17.91	0.30	0.00	0.00	0.00
68726	0	0	0	0.97100E+00	43298.0	49845.0	0.0	3.05	1000.00	8.60	0.30	0.00	0.00	0.00
68811	0	0	0	0.24000E-01	15313.0	48209.0	0.0	3.05	1000.00	0.45	0.30	0.00	0.00	0.00
68854	0	0	0	0.10000E-01	15671.0	48090.0	0.0	3.05	1000.00	0.17	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE E	WAK E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
68929	0	0	0	0.52000E-01	14832.0	32259.0	0.0	3.05	1000.00	1.12	0.30	0.00	0.00	0.00
68937	0	0	0	0.37000E-01	18326.0	56898.0	0.0	0.30	1000.00	0.69	0.30	0.00	0.00	0.00
69000	0	0	0	0.32100E+00	51061.0	43574.0	0.0	6.10	1000.00	2.81	0.30	0.00	0.00	0.00
69162	0	0	0	0.10000E+00	42981.0	63819.0	0.0	12.19	1000.00	0.50	0.30	0.00	0.00	0.00
69182	0	0	0	0.10000E-02	13181.0	34741.0	0.0	3.05	1000.00	0.01	0.30	0.00	0.00	0.00
69183	0	0	0	0.10000E-02	12331.0	34673.0	0.0	3.05	1000.00	0.02	0.30	0.00	0.00	0.00
69195	0	0	0	0.69100E+00	51851.0	37094.0	0.0	3.05	1000.00	5.21	0.30	0.00	0.00	0.00
69214	0	0	0	0.10000E-02	13393.0	35442.0	0.0	3.05	1000.00	0.02	0.30	0.00	0.00	0.00
69276	0	0	0	0.10000E+00	9360.0	62704.0	0.0	3.05	1000.00	3.33	0.30	0.00	0.00	0.00
69295	0	0	0	0.16000E-01	13345.0	37712.0	0.0	2.44	1000.00	0.32	0.30	0.00	0.00	0.00
69410	0	0	0	0.12330E+01	47677.0	16446.0	0.0	6.10	1000.00	7.40	0.30	0.00	0.00	0.00
69421	0	0	0	0.64000E-01	50682.0	42328.0	0.0	3.05	1000.00	0.51	0.30	0.00	0.00	0.00
69428	0	0	0	0.10000E+00	14070.0	32531.0	0.0	3.05	1000.00	1.50	0.30	0.00	0.00	0.00
69510	0	0	0	0.12574E+02	42926.0	64409.0	0.0	12.19	1000.00	68.51	0.30	0.00	0.00	0.00
69561	0	0	0	0.17000E-01	13383.0	37758.0	0.0	2.44	1000.00	0.34	0.30	0.00	0.00	0.00
69567	0	0	0	0.57200E+00	14172.0	34577.0	0.0	0.30	1000.00	12.92	0.30	0.00	0.00	0.00
69582	0	0	0	0.15000E-01	49071.0	36209.0	0.0	3.05	1000.00	0.12	0.30	0.00	0.00	0.00
69585	0	0	0	0.10000E-02	14172.0	34577.0	0.0	0.30	1000.00	0.02	0.30	0.00	0.00	0.00
69607	0	0	0	0.74500E+00	13048.0	39849.0	0.0	3.05	1000.00	8.60	0.30	0.00	0.00	0.00
69626	0	0	0	0.10000E-02	13345.0	37712.0	0.0	2.44	1000.00	0.01	0.30	0.00	0.00	0.00
69643	0	0	0	0.11000E-01	14066.0	48927.0	0.0	0.30	1000.00	0.13	0.30	0.00	0.00	0.00
69748	0	0	0	0.74000E-01	50698.0	35453.0	0.0	4.57	1000.00	1.15	0.30	0.00	0.00	0.00
69749	0	0	0	0.59000E-01	49088.0	35402.0	0.0	6.10	1000.00	0.80	0.30	0.00	0.00	0.00
69772	0	0	0	0.11000E-01	13345.0	37712.0	0.0	2.44	1000.00	0.22	0.30	0.00	0.00	0.00
69787	0	0	0	0.76000E-01	47634.0	34830.0	0.0	6.10	1000.00	0.44	0.30	0.00	0.00	0.00
69827	0	0	0	0.16000E-01	-17320.0	63215.0	0.0	3.05	1000.00	0.58	0.30	0.00	0.00	0.00
69856	0	0	0	0.70000E-02	14930.0	38562.0	0.0	3.05	1000.00	0.12	0.30	0.00	0.00	0.00
69865	0	0	0	0.80000E-01	14588.0	46593.0	0.0	3.05	1000.00	1.31	0.30	0.00	0.00	0.00
69889	0	0	0	0.48000E-01	6291.0	42120.0	0.0	3.05	1000.00	0.57	0.30	0.00	0.00	0.00
69990	0	0	0	0.60000E+00	13413.0	38983.0	0.0	3.05	1000.00	14.99	0.30	0.00	0.00	0.00
70056	0	0	0	0.82000E-01	48332.0	34678.0	0.0	6.10	1000.00	0.44	0.30	0.00	0.00	0.00
70178	0	0	0	0.65300E+00	12129.0	37738.0	0.0	3.05	1000.00	12.02	0.30	0.00	0.00	0.00
70188	0	0	0	0.22400E+00	50302.0	35039.0	0.0	3.05	1000.00	1.74	0.30	0.00	0.00	0.00
70207	0	0	0	0.43500E+00	50193.0	35539.0	0.0	3.05	1000.00	3.38	0.30	0.00	0.00	0.00
70215	0	0	0	0.20000E-02	13892.0	38540.0	0.0	3.05	1000.00	0.04	0.30	0.00	0.00	0.00
70217	0	0	0	0.75000E-01	-16917.0	62460.0	0.0	3.05	1000.00	2.10	0.30	0.00	0.00	0.00
70229	0	0	0	0.37000E-01	14271.0	32901.0	0.0	3.05	1000.00	0.66	0.30	0.00	0.00	0.00
70460	0	0	0	0.58000E-01	18314.0	54898.0	0.0	0.30	1000.00	1.13	0.30	0.00	0.00	0.00
70485	0	0	0	0.53800E+00	27053.0	57506.0	0.0	3.05	1000.00	7.83	0.30	0.00	0.00	0.00

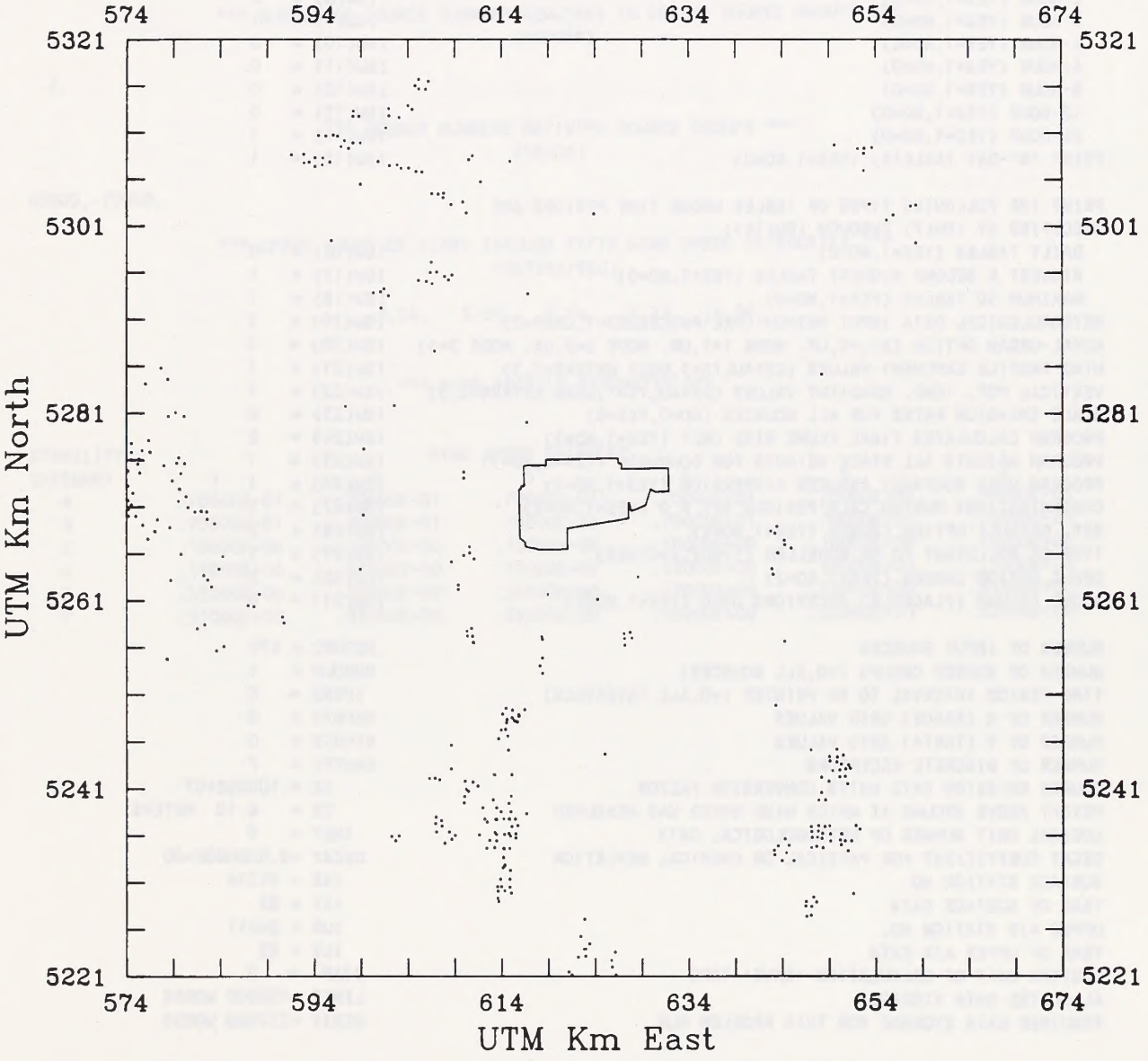
*** THEODORE ROOSEVELT ELKHORN RANCH - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE E	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
70515	0	0	0	0.11700E+00	16718.0	80063.0	0.0	3.05	1000.00	3.54	0.30	0.00	0.00	0.00
70516	0	0	0	0.68000E-01	24695.0	1818.0	0.0	0.91	1000.00	4.33	0.30	0.00	0.00	0.00
70520	0	0	0	0.75000E-01	47233.0	29391.0	0.0	3.05	1000.00	0.58	0.30	0.00	0.00	0.00
70603	0	0	0	0.81000E-01	47054.0	28393.0	0.0	3.05	1000.00	0.63	0.30	0.00	0.00	0.00
70821	0	0	0	0.20100E+00	47055.0	27481.0	0.0	3.05	1000.00	1.56	0.30	0.00	0.00	0.00
70868	0	0	0	0.59000E-01	14716.0	39438.0	0.0	3.05	1000.00	0.92	0.30	0.00	0.00	0.00
70915	0	0	0	0.24800E+00	13225.0	36298.0	0.0	2.44	1000.00	6.15	0.30	0.00	0.00	0.00
71171	0	0	0	0.35200E+00	46414.0	28469.0	0.0	3.05	1000.00	2.73	0.30	0.00	0.00	0.00
71178	0	0	0	0.12800E+00	8565.0	45607.0	0.0	0.30	1000.00	2.34	0.30	0.00	0.00	0.00
71240	0	0	0	0.70000E-02	14961.0	40231.0	0.0	3.05	1000.00	0.13	0.30	0.00	0.00	0.00
71313	0	0	0	0.13200E+00	24187.0	61137.0	0.0	3.05	1000.00	5.14	0.30	0.00	0.00	0.00
71521	0	0	0	0.87000E+00	51012.0	34393.0	0.0	3.05	1000.00	6.75	0.30	0.00	0.00	0.00
71784	0	0	0	0.49400E+00	7868.0	35187.0	0.0	3.05	1000.00	5.86	0.30	0.00	0.00	0.00
71817	0	0	0	0.31670E+01	13672.0	46337.0	0.0	3.05	1000.00	36.93	0.30	0.00	0.00	0.00
71818	0	0	0	0.35000E-01	13910.0	47246.0	0.0	3.05	1000.00	0.58	0.30	0.00	0.00	0.00
72001	0	0	0	0.90000E-02	26255.0	-11344.0	0.0	0.30	1000.00	4.31	0.30	0.00	0.00	0.00
72048	0	0	0	0.13800E+00	11986.0	38975.0	0.0	3.05	1000.00	15.35	0.30	0.00	0.00	0.00
72054	0	0	0	0.40000E-02	25683.0	-12196.0	0.0	0.30	1000.00	1.77	0.30	0.00	0.00	0.00
72163	0	0	0	0.52740E+01	8533.0	43085.0	0.0	0.30	1000.00	117.51	0.30	0.00	0.00	0.00
72178	0	0	0	0.10000E-01	26333.0	-10272.0	0.0	1.83	1000.00	5.58	0.30	0.00	0.00	0.00
72179	0	0	0	0.30000E-02	26515.0	-12054.0	0.0	0.30	1000.00	6.60	0.30	0.00	0.00	0.00
72315	0	0	0	0.30000E-02	31803.0	-9582.0	0.0	0.30	1000.00	3.51	0.30	0.00	0.00	0.00

Theodore Roosevelt National Park
North Unit

Figure B-51
Theodore Roosevelt National Park - North Unit
Locations of Existing PSD Sources of SO_2



*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 1
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 0
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 479
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 1
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 0
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 7
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
LOGICAL UNIT OF CALCULATION 'SAVE' TAPE	ITAP = 3
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT =137980 WORDS

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 0
```

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

2,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

40000,-79999,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(20950.0, -34081.0), (18254.0, -29735.0), (23125.0, -29452.0), (17969.0, -24839.0), (22840.0, -24556.0),
(27854.0, -26721.0), (31508.0, -26508.0), (

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
49132	0	0	0	0.12000E-01	6539.0	4471.0	0.0	6.71	1000.00	2.01	0.30	0.00	0.00	0.00
49617	0	0	0	0.34000E-01	7759.0	4040.0	0.0	6.71	1000.00	2.62	0.30	0.00	0.00	0.00
49844	0	0	0	0.22000E-01	8592.0	3254.0	0.0	6.71	1000.00	1.50	0.30	0.00	0.00	0.00
50087	0	0	0	0.10000E-01	7796.0	4544.0	0.0	6.71	1000.00	0.78	0.30	0.00	0.00	0.00
48165	0	0	0	0.36000E-01	7301.0	4431.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
70816	0	0	0	0.13300E+00	6848.0	-12407.0	0.0	0.30	1000.00	5.42	0.30	0.00	0.00	0.00
66368	0	0	0	0.57100E+01	48285.0	-14810.0	0.0	12.19	1000.00	17.37	0.30	0.00	0.00	0.00
47337	0	0	0	0.10170E+01	28527.0	-36460.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
67337	0	0	0	0.13920E+01	28527.0	-36460.0	0.0	6.10	1000.00	14.42	0.30	0.00	0.00	0.00
47148	0	0	0	0.43500E+00	21406.0	-78838.0	0.0	6.71	1000.00	10.53	0.30	0.00	0.00	0.00
47096	0	0	0	0.31900E+00	21064.0	-78520.0	0.0	6.71	1000.00	7.73	0.30	0.00	0.00	0.00
68301	0	0	0	0.10000E-02	57805.0	3179.0	0.0	0.30	1000.00	0.46	0.30	0.00	0.00	0.00
48997	0	0	0	0.15000E-01	55239.0	1635.0	0.0	6.71	1000.00	2.54	0.30	0.00	0.00	0.00
68083	0	0	0	0.20000E-02	58362.0	-811.0	0.0	0.30	1000.00	0.73	0.30	0.00	0.00	0.00
49945	0	0	0	0.15000E+00	55866.0	2230.0	0.0	6.71	1000.00	0.82	0.30	0.00	0.00	0.00
72052	0	0	0	0.32000E-01	58394.0	3307.0	0.0	7.62	1000.00	2.10	0.30	0.00	0.00	0.00
47478	0	0	0	0.60000E-02	-2686.0	-18255.0	0.0	6.71	1000.00	2.61	0.30	0.00	0.00	0.00
47511	0	0	0	0.14000E-01	-749.0	-22827.0	0.0	6.71	1000.00	6.09	0.30	0.00	0.00	0.00
47833	0	0	0	0.52300E+00	6910.0	-57898.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48008	0	0	0	0.52300E+00	7585.0	-62996.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
68008	0	0	0	0.20000E-02	7585.0	-62996.0	0.0	3.05	1000.00	0.03	0.30	0.00	0.00	0.00
48007	0	0	0	0.52300E+00	7486.0	-62421.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
68007	0	0	0	0.11000E-01	7486.0	-62421.0	0.0	3.05	1000.00	0.13	0.30	0.00	0.00	0.00
48192	0	0	0	0.52300E+00	6960.0	-62031.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
68192	0	0	0	0.40000E-02	6960.0	-62031.0	0.0	3.05	1000.00	0.05	0.30	0.00	0.00	0.00
47567	0	0	0	0.52300E+00	6888.0	-62739.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
67567	0	0	0	0.20000E-02	6888.0	-62739.0	0.0	3.05	1000.00	0.02	0.30	0.00	0.00	0.00
68291	0	0	0	0.59000E-01	7038.0	-63606.0	0.0	3.05	1000.00	0.55	0.30	0.00	0.00	0.00
48472	0	0	0	0.52300E+00	7381.0	-58029.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
49889	0	0	0	0.52300E+00	6291.0	-57880.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
69889	0	0	0	0.48000E-01	6291.0	-57880.0	0.0	3.05	1000.00	0.57	0.30	0.00	0.00	0.00
50713	0	0	0	0.41800E+00	8650.0	-64398.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
50576	0	0	0	0.41800E+00	8364.0	-63600.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
51784	0	0	0	0.41800E+00	7868.0	-64813.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
71784	0	0	0	0.49400E+00	7868.0	-64813.0	0.0	3.05	1000.00	5.86	0.30	0.00	0.00	0.00
50515	0	0	0	0.19000E+00	16718.0	-19937.0	0.0	6.71	1000.00	5.78	0.30	0.00	0.00	0.00
70515	0	0	0	0.11700E+00	16718.0	-19937.0	0.0	3.05	1000.00	3.54	0.30	0.00	0.00	0.00
46704	0	0	0	0.71000E-01	9934.0	-34191.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
46718	0	0	0	0.78000E-01	10586.0	-33886.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
47779	0	0	0	0.61000E-01	11014.0	-34550.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
67779	0	0	0	0.51000E-01	11014.0	-34550.0	0.0	3.05	1000.00	2.57	0.30	0.00	0.00	0.00
47944	0	0	0	0.78000E-01	10585.0	-33262.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
51664	0	0	0	0.23000E-01	8587.0	-34858.0	0.0	7.62	1000.00	0.83	0.30	0.00	0.00	0.00
48737	0	0	0	0.11100E+00	-805.0	-29849.0	0.0	8.53	1000.00	3.54	0.30	0.00	0.00	0.00
48873	0	0	0	0.10000E-02	53384.0	3373.0	0.0	6.71	1000.00	3.91	0.30	0.00	0.00	0.00
68873	0	0	0	0.10000E-02	53384.0	3373.0	0.0	0.30	1000.00	8.80	0.30	0.00	0.00	0.00
50050	0	0	0	0.15900E+00	52831.0	9380.0	0.0	7.32	1000.00	2.47	0.30	0.00	0.00	0.00
50125	0	0	0	0.18000E+00	52747.0	8811.0	0.0	6.71	1000.00	2.47	0.30	0.00	0.00	0.00
50227	0	0	0	0.32000E-01	52750.0	6970.0	0.0	6.71	1000.00	9.61	0.30	0.00	0.00	0.00
50313	0	0	0	0.22300E+00	52077.0	9311.0	0.0	6.71	1000.00	2.48	0.30	0.00	0.00	0.00
50343	0	0	0	0.27200E+00	52807.0	9380.0	0.0	7.32	1000.00	2.07	0.30	0.00	0.00	0.00
51540	0	0	0	0.27800E+00	53634.0	9402.0	0.0	7.32	1000.00	3.10	0.30	0.00	0.00	0.00
49593	0	0	0	0.30000E-02	1639.0	11526.0	0.0	7.32	1000.00	0.64	0.30	0.00	0.00	0.00
69593	0	0	0	0.15000E-01	1639.0	11526.0	0.0	0.30	1000.00	3.29	0.30	0.00	0.00	0.00
49621	0	0	0	0.40000E-02	3997.0	13914.0	0.0	7.32	1000.00	0.92	0.30	0.00	0.00	0.00
49654	0	0	0	0.70000E-02	5165.0	15707.0	0.0	7.32	1000.00	1.10	0.30	0.00	0.00	0.00
49696	0	0	0	0.50000E-02	5885.0	15685.0	0.0	7.32	1000.00	0.49	0.30	0.00	0.00	0.00
49708	0	0	0	0.70000E-02	1976.0	12792.0	0.0	7.32	1000.00	2.39	0.30	0.00	0.00	0.00
49709	0	0	0	0.50000E-02	1959.0	13596.0	0.0	7.32	1000.00	2.12	0.30	0.00	0.00	0.00
49716	0	0	0	0.10000E-02	4432.0	13497.0	0.0	7.32	1000.00	0.62	0.30	0.00	0.00	0.00
49767	0	0	0	0.30000E-02	6206.0	16531.0	0.0	7.32	1000.00	0.58	0.30	0.00	0.00	0.00
49504	0	0	0	0.30000E-02	3054.0	12614.0	0.0	7.32	1000.00	1.21	0.30	0.00	0.00	0.00
50656	0	0	0	0.40000E-02	4781.0	16049.0	0.0	7.32	1000.00	0.76	0.30	0.00	0.00	0.00
50829	0	0	0	0.23000E-01	5171.0	16772.0	0.0	7.32	1000.00	1.93	0.30	0.00	0.00	0.00
48202	0	0	0	0.45700E+00	51591.0	-70193.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
68202	0	0	0	0.17020E+01	51591.0	-70193.0	0.0	0.30	1000.00	13.84	0.30	0.00	0.00	0.00
48542	0	0	0	0.10000E-02	9970.0	-59817.0	0.0	6.71	1000.00	0.07	0.30	0.00	0.00	0.00
48564	0	0	0	0.59800E+00	11383.0	-58674.0	0.0	10.67	1000.00	9.30	0.30	0.00	0.00	0.00
48651	0	0	0	0.52000E-01	11383.0	-58674.0	0.0	10.67	1000.00	9.30	0.30	0.00	0.00	0.00
49127	0	0	0	0.11600E+00	11383.0	-58674.0	0.0	10.67	1000.00	9.30	0.30	0.00	0.00	0.00
49426	0	0	0	0.84000E-01	9964.0	-60539.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49007	0	0	0	0.97600E+00	10088.0	-58163.0	0.0	6.71	1000.00	15.18	0.30	0.00	0.00	0.00
46310	0	0	0	0.84000E-01	10913.0	-58267.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
66310	0	0	0	0.18000E-01	10913.0	-58267.0	0.0	3.05	1000.00	1.96	0.30	0.00	0.00	0.00
48710	0	0	0	0.97100E+00	10167.0	-59078.0	0.0	6.71	1000.00	15.10	0.30	0.00	0.00	0.00
50065	0	0	0	0.84000E-01	10437.0	-59313.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
51231	0	0	0	0.31900E+00	9007.0	-64002.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
52048	0	0	0	0.12000E+00	11986.0	-61025.0	0.0	6.71	1000.00	13.34	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
72048	0	0	0	0.13800E+00	11986.0	-61025.0	0.0	3.05	1000.00	15.35	0.30	0.00	0.00	0.00
71401	0	0	0	0.30000E-02	49608.0	9692.0	0.0	3.05	1000.00	0.07	0.30	0.00	0.00	0.00
46790	0	0	0	0.10000E-02	-3513.0	10641.0	0.0	7.32	1000.00	0.67	0.30	0.00	0.00	0.00
49385	0	0	0	0.10000E-02	-4774.0	10661.0	0.0	7.32	1000.00	1.35	0.30	0.00	0.00	0.00
49260	0	0	0	0.13000E-01	-5081.0	8282.0	0.0	6.71	1000.00	6.82	0.30	0.00	0.00	0.00
48673	0	0	0	0.30000E-02	-4007.0	10727.0	0.0	7.32	1000.00	1.35	0.30	0.00	0.00	0.00
49420	0	0	0	0.50000E-02	-1811.0	13319.0	0.0	7.32	1000.00	1.86	0.30	0.00	0.00	0.00
49618	0	0	0	0.30000E-02	-2737.0	10111.0	0.0	7.32	1000.00	2.16	0.30	0.00	0.00	0.00
49667	0	0	0	0.14000E-01	-5921.0	7369.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
47854	0	0	0	0.90000E-02	-5578.0	10693.0	0.0	6.71	1000.00	4.95	0.30	0.00	0.00	0.00
49712	0	0	0	0.70000E-02	-6534.0	7813.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
49774	0	0	0	0.20000E-02	-4320.0	7849.0	0.0	7.32	1000.00	1.20	0.30	0.00	0.00	0.00
49886	0	0	0	0.15000E-01	-5889.0	8325.0	0.0	6.71	1000.00	8.06	0.30	0.00	0.00	0.00
49906	0	0	0	0.10000E-02	-5119.0	7544.0	0.0	6.71	1000.00	0.62	0.30	0.00	0.00	0.00
50127	0	0	0	0.10000E-02	-1901.0	12763.0	0.0	6.71	1000.00	0.59	0.30	0.00	0.00	0.00
50211	0	0	0	0.30000E-02	-7096.0	8649.0	0.0	7.32	1000.00	1.09	0.30	0.00	0.00	0.00
50524	0	0	0	0.20000E-02	-7086.0	7754.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
70524	0	0	0	0.17000E-01	-7086.0	7754.0	0.0	0.30	1000.00	9.30	0.30	0.00	0.00	0.00
50611	0	0	0	0.50000E-02	-8399.0	8626.0	0.0	7.32	1000.00	1.48	0.30	0.00	0.00	0.00
50675	0	0	0	0.10000E-02	-1231.0	12726.0	0.0	6.71	1000.00	0.62	0.30	0.00	0.00	0.00
50285	0	0	0	0.40000E-02	-3140.0	9476.0	0.0	7.32	1000.00	2.20	0.30	0.00	0.00	0.00
50747	0	0	0	0.80000E-02	-2335.0	9282.0	0.0	7.32	1000.00	1.96	0.30	0.00	0.00	0.00
45168	0	0	0	0.19500E+00	13191.0	-57536.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
65168	0	0	0	0.89000E-01	13191.0	-57536.0	0.0	3.05	1000.00	1.72	0.30	0.00	0.00	0.00
46912	0	0	0	0.34700E+00	13865.0	-68636.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
66912	0	0	0	0.19000E-01	13865.0	-68636.0	0.0	3.05	1000.00	0.33	0.30	0.00	0.00	0.00
46937	0	0	0	0.34700E+00	14801.0	-68649.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
66937	0	0	0	0.71000E-01	14801.0	-68649.0	0.0	3.05	1000.00	1.27	0.30	0.00	0.00	0.00
47070	0	0	0	0.34700E+00	13625.0	-71047.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
67070	0	0	0	0.42000E-01	13625.0	-71047.0	0.0	3.05	1000.00	0.75	0.30	0.00	0.00	0.00
47118	0	0	0	0.20900E+00	13486.0	-69418.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
67118	0	0	0	0.60000E-02	13486.0	-69418.0	0.0	3.05	1000.00	0.10	0.30	0.00	0.00	0.00
47165	0	0	0	0.34700E+00	14820.0	-69491.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
67165	0	0	0	0.74000E-01	14820.0	-69491.0	0.0	3.05	1000.00	1.33	0.30	0.00	0.00	0.00
47439	0	0	0	0.20900E+00	14974.0	-70140.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
67439	0	0	0	0.24000E-01	14974.0	-70140.0	0.0	3.05	1000.00	0.43	0.30	0.00	0.00	0.00
48024	0	0	0	0.66600E+00	14253.0	-67210.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
68024	0	0	0	0.72000E-01	14253.0	-67210.0	0.0	3.05	1000.00	1.00	0.30	0.00	0.00	0.00
49113	0	0	0	0.20800E+00	14162.0	-66350.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
49428	0	0	0	0.25000E+00	14070.0	-67469.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
69428	0	0	0	0.10000E+00	14070.0	-67469.0	0.0	3.05	1000.00	1.50	0.30	0.00	0.00	0.00
49594	0	0	0	0.69000E-01	15056.0	-57499.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
46258	0	0	0	0.34700E+00	13522.0	-70691.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
66258	0	0	0	0.84000E-01	13522.0	-70691.0	0.0	3.05	1000.00	1.51	0.30	0.00	0.00	0.00
46856	0	0	0	0.34700E+00	13525.0	-69902.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
66856	0	0	0	0.47000E-01	13525.0	-69902.0	0.0	3.05	1000.00	0.83	0.30	0.00	0.00	0.00
46905	0	0	0	0.34700E+00	14304.0	-69857.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
66905	0	0	0	0.15600E+00	14304.0	-69857.0	0.0	3.05	1000.00	2.80	0.30	0.00	0.00	0.00
47250	0	0	0	0.22400E+00	13942.0	-69422.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
67250	0	0	0	0.34000E-01	13942.0	-69422.0	0.0	3.05	1000.00	0.56	0.30	0.00	0.00	0.00
48579	0	0	0	0.20900E+00	14143.0	-66246.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
68579	0	0	0	0.53000E-01	14143.0	-66246.0	0.0	3.05	1000.00	0.95	0.30	0.00	0.00	0.00
48929	0	0	0	0.17500E+00	14832.0	-67741.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
68929	0	0	0	0.52000E-01	14832.0	-67741.0	0.0	3.05	1000.00	1.12	0.30	0.00	0.00	0.00
50229	0	0	0	0.52000E+00	14271.0	-67099.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
70229	0	0	0	0.37000E-01	14271.0	-67099.0	0.0	3.05	1000.00	0.66	0.30	0.00	0.00	0.00
47495	0	0	0	0.55000E-01	10342.0	-42737.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
67512	0	0	0	0.70000E-02	10969.0	-43471.0	0.0	3.05	1000.00	0.39	0.30	0.00	0.00	0.00
48668	0	0	0	0.90000E-01	10848.0	-42729.0	0.0	6.71	1000.00	3.12	0.30	0.00	0.00	0.00
49253	0	0	0	0.55000E-01	10715.0	-41958.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
47494	0	0	0	0.25600E+00	10275.0	-42239.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
46579	0	0	0	0.13500E+00	23316.0	-75548.0	0.0	6.71	1000.00	3.36	0.30	0.00	0.00	0.00
46830	0	0	0	0.96000E-01	22710.0	-76138.0	0.0	6.71	1000.00	3.40	0.30	0.00	0.00	0.00
46884	0	0	0	0.21800E+00	22359.0	-74747.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
46979	0	0	0	0.33500E+00	22107.0	-76985.0	0.0	6.71	1000.00	5.21	0.30	0.00	0.00	0.00
47921	0	0	0	0.50700E+00	22860.0	-76861.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49862	0	0	0	0.35600E+00	22762.0	-72921.0	0.0	6.71	1000.00	8.10	0.30	0.00	0.00	0.00
46891	0	0	0	0.30000E-02	22922.0	-76095.0	0.0	8.84	1000.00	0.81	0.30	0.00	0.00	0.00
47479	0	0	0	0.65600E+00	27738.0	-42373.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
50485	0	0	0	0.85100E+00	27053.0	-42494.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
70485	0	0	0	0.53800E+00	27053.0	-42494.0	0.0	3.05	1000.00	7.83	0.30	0.00	0.00	0.00
51752	0	0	0	0.25500E+00	27116.0	-43010.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
51841	0	0	0	0.72300E+00	27919.0	-42967.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
51865	0	0	0	0.65300E+00	27132.0	-43748.0	0.0	6.71	1000.00	8.68	0.30	0.00	0.00	0.00
50951	0	0	0	0.20000E-02	-1114.0	-35652.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
46534	0	0	0	0.63900E+00	49342.0	-57124.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
47297	0	0	0	0.63900E+00	48161.0	-57777.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
47583	0	0	0	0.63900E+00	48172.0	-57424.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
47659	0	0	0	0.63900E+00	47790.0	-60207.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
47798	0	0	0	0.13300E+00	43513.0	-65150.0	0.0	6.71	1000.00	0.86	0.30	0.00	0.00	0.00
48277	0	0	0	0.63900E+00	49866.0	-54784.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48370	0	0	0	0.63900E+00	49054.0	-56038.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48436	0	0	0	0.79900E+00	50481.0	-55444.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48476	0	0	0	0.19400E+00	45157.0	-66679.0	0.0	6.71	1000.00	1.51	0.30	0.00	0.00	0.00
48469	0	0	0	0.15200E+00	43103.0	-65585.0	0.0	6.71	1000.00	1.18	0.30	0.00	0.00	0.00
48588	0	0	0	0.35300E+00	50742.0	-56851.0	0.0	6.71	1000.00	3.02	0.30	0.00	0.00	0.00
48726	0	0	0	0.10510E+01	43298.0	-50155.0	0.0	7.62	1000.00	9.30	0.30	0.00	0.00	0.00
68726	0	0	0	0.97100E+00	43298.0	-50155.0	0.0	3.05	1000.00	8.60	0.30	0.00	0.00	0.00
48911	0	0	0	0.72400E+00	48270.0	-63810.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48924	0	0	0	0.63600E+00	50147.0	-56975.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49153	0	0	0	0.75100E+00	49055.0	-62986.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49190	0	0	0	0.62500E+00	48229.0	-64326.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
49231	0	0	0	0.93200E+00	51254.0	-56834.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
49225	0	0	0	0.63900E+00	50129.0	-57730.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49421	0	0	0	0.35100E+00	50682.0	-57672.0	0.0	6.71	1000.00	2.80	0.30	0.00	0.00	0.00
69421	0	0	0	0.64000E-01	50682.0	-57672.0	0.0	3.05	1000.00	0.51	0.30	0.00	0.00	0.00
49531	0	0	0	0.63900E+00	47812.0	-62958.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48927	0	0	0	0.13100E+00	43143.0	-66086.0	0.0	6.71	1000.00	1.02	0.30	0.00	0.00	0.00
49552	0	0	0	0.63900E+00	52262.0	-63297.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49195	0	0	0	0.66200E+00	51851.0	-62906.0	0.0	6.71	1000.00	4.99	0.30	0.00	0.00	0.00
69195	0	0	0	0.69100E+00	51851.0	-62906.0	0.0	3.05	1000.00	5.21	0.30	0.00	0.00	0.00
49582	0	0	0	0.76600E+00	49071.0	-63791.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
69582	0	0	0	0.15000E-01	49071.0	-63791.0	0.0	3.05	1000.00	0.12	0.30	0.00	0.00	0.00
49196	0	0	0	0.63900E+00	47720.0	-64193.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48309	0	0	0	0.63900E+00	49027.0	-55567.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48004	0	0	0	0.52400E+00	49881.0	-55611.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
49187	0	0	0	0.63900E+00	47111.0	-64206.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49154	0	0	0	0.63900E+00	47812.0	-63468.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
46859	0	0	0	0.65000E-01	44264.0	-64343.0	0.0	6.71	1000.00	0.50	0.30	0.00	0.00	0.00
47133	0	0	0	0.63900E+00	47112.0	-54871.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
47387	0	0	0	0.71100E+00	43914.0	-66712.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
67387	0	0	0	0.57000E-01	43914.0	-66712.0	0.0	3.05	1000.00	0.50	0.30	0.00	0.00	0.00
47426	0	0	0	0.65200E+00	48988.0	-58163.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
49691	0	0	0	0.63900E+00	47030.0	-63074.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48168	0	0	0	0.63900E+00	48595.0	-60188.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48271	0	0	0	0.79900E+00	50295.0	-56367.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
68271	0	0	0	0.34800E+00	50295.0	-56367.0	0.0	3.05	1000.00	2.70	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
48347	0	0	0	0.68700E+00	49828.0	-56126.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48677	0	0	0	0.59000E+00	44399.0	-65857.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49000	0	0	0	0.70900E+00	51061.0	-56426.0	0.0	7.62	1000.00	6.20	0.30	0.00	0.00	0.00
69000	0	0	0	0.32100E+00	51061.0	-56426.0	0.0	6.10	1000.00	2.81	0.30	0.00	0.00	0.00
49188	0	0	0	0.63900E+00	47104.0	-63597.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
46200	0	0	0	0.63900E+00	44676.0	-65094.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49748	0	0	0	0.39900E+00	50698.0	-64547.0	0.0	8.84	1000.00	6.20	0.30	0.00	0.00	0.00
69748	0	0	0	0.74000E-01	50698.0	-64547.0	0.0	4.57	1000.00	1.15	0.30	0.00	0.00	0.00
49749	0	0	0	0.47400E+00	49088.0	-64598.0	0.0	7.62	1000.00	6.51	0.30	0.00	0.00	0.00
69749	0	0	0	0.59000E-01	49088.0	-64598.0	0.0	6.10	1000.00	0.80	0.30	0.00	0.00	0.00
49787	0	0	0	0.10920E+01	47634.0	-65170.0	0.0	6.71	1000.00	6.29	0.30	0.00	0.00	0.00
69787	0	0	0	0.76000E-01	47634.0	-65170.0	0.0	6.10	1000.00	0.44	0.30	0.00	0.00	0.00
49799	0	0	0	0.10500E+00	44293.0	-43319.0	0.0	6.71	1000.00	0.81	0.30	0.00	0.00	0.00
49553	0	0	0	0.53800E+00	50960.0	-58506.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
50056	0	0	0	0.11310E+01	48332.0	-65322.0	0.0	6.71	1000.00	6.12	0.30	0.00	0.00	0.00
70056	0	0	0	0.82000E-01	48332.0	-65322.0	0.0	6.10	1000.00	0.44	0.30	0.00	0.00	0.00
50079	0	0	0	0.68700E+00	50295.0	-63772.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
50168	0	0	0	0.13300E+00	47057.0	-65303.0	0.0	6.71	1000.00	1.03	0.30	0.00	0.00	0.00
50207	0	0	0	0.79900E+00	50193.0	-64461.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
70207	0	0	0	0.43500E+00	50193.0	-64461.0	0.0	3.05	1000.00	3.38	0.30	0.00	0.00	0.00
50188	0	0	0	0.79900E+00	50302.0	-64961.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
70188	0	0	0	0.22400E+00	50302.0	-64961.0	0.0	3.05	1000.00	1.74	0.30	0.00	0.00	0.00
50520	0	0	0	0.78300E+00	47233.0	-70609.0	0.0	6.71	1000.00	6.08	0.30	0.00	0.00	0.00
70520	0	0	0	0.75000E-01	47233.0	-70609.0	0.0	3.05	1000.00	0.58	0.30	0.00	0.00	0.00
50603	0	0	0	0.15970E+01	47054.0	-71607.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
70603	0	0	0	0.81000E-01	47054.0	-71607.0	0.0	3.05	1000.00	0.63	0.30	0.00	0.00	0.00
50213	0	0	0	0.63900E+00	48551.0	-63000.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
50669	0	0	0	0.48600E+00	47599.0	-71097.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
50276	0	0	0	0.79900E+00	51429.0	-64528.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50821	0	0	0	0.15970E+01	47055.0	-72519.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
70821	0	0	0	0.20100E+00	47055.0	-72519.0	0.0	3.05	1000.00	1.56	0.30	0.00	0.00	0.00
51116	0	0	0	0.63900E+00	46541.0	-72680.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
51171	0	0	0	0.15970E+01	46414.0	-71531.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
71171	0	0	0	0.35200E+00	46414.0	-71531.0	0.0	3.05	1000.00	2.73	0.30	0.00	0.00	0.00
51360	0	0	0	0.49500E+00	46484.0	-71030.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
51521	0	0	0	0.79900E+00	51012.0	-65607.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
71521	0	0	0	0.87000E+00	51012.0	-65607.0	0.0	3.05	1000.00	6.75	0.30	0.00	0.00	0.00
48838	0	0	0	0.19060E+01	44176.0	-32507.0	0.0	8.84	1000.00	6.20	0.30	0.00	0.00	0.00
49063	0	0	0	0.23490E+01	44212.0	-33011.0	0.0	8.84	1000.00	6.20	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
49062	0	0	0	0.20390E+01	44212.0	-33011.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
49162	0	0	0	0.12340E+01	42981.0	-36181.0	0.0	4.27	1000.00	6.12	0.30	0.00	0.00	0.00
69162	0	0	0	0.10000E+00	42981.0	-36181.0	0.0	12.19	1000.00	0.50	0.30	0.00	0.00	0.00
49159	0	0	0	0.28320E+01	42740.0	-31591.0	0.0	6.71	1000.00	9.15	0.30	0.00	0.00	0.00
69510	0	0	0	0.12574E+02	42926.0	-35591.0	0.0	12.19	1000.00	68.51	0.30	0.00	0.00	0.00
49016	0	0	0	0.27480E+01	44951.0	-33344.0	0.0	8.84	1000.00	6.20	0.30	0.00	0.00	0.00
48486	0	0	0	0.27880E+01	43220.0	-31771.0	0.0	7.62	1000.00	6.29	0.30	0.00	0.00	0.00
48915	0	0	0	0.12840E+01	43500.0	-33882.0	0.0	8.84	1000.00	6.20	0.30	0.00	0.00	0.00
49167	0	0	0	0.38870E+01	43403.0	-31051.0	0.0	4.27	1000.00	7.16	0.30	0.00	0.00	0.00
69167	0	0	0	0.12490E+01	43403.0	-31051.0	0.0	12.19	1000.00	2.30	0.30	0.00	0.00	0.00
49698	0	0	0	0.14000E-01	-1057.0	5500.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
46444	0	0	0	0.13400E+00	-17368.0	-30312.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
46242	0	0	0	0.20600E+00	-23719.0	-32421.0	0.0	6.71	1000.00	4.93	0.30	0.00	0.00	0.00
46468	0	0	0	0.21500E+00	-15726.0	-34300.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
46715	0	0	0	0.51000E-01	-20244.0	-25401.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
46769	0	0	0	0.82000E-01	-25819.0	-25177.0	0.0	6.71	1000.00	4.93	0.30	0.00	0.00	0.00
46801	0	0	0	0.13400E+00	-22978.0	-31615.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
46870	0	0	0	0.13400E+00	-24781.0	-24400.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
46904	0	0	0	0.20000E-01	-18684.0	-29566.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
46924	0	0	0	0.13400E+00	-21118.0	-26203.0	0.0	6.71	1000.00	4.93	0.30	0.00	0.00	0.00
47155	0	0	0	0.51000E-01	-20399.0	-28439.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47281	0	0	0	0.18000E+00	-19486.0	-29078.0	0.0	6.71	1000.00	6.59	0.30	0.00	0.00	0.00
47454	0	0	0	0.51000E-01	-24672.0	-23866.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47573	0	0	0	0.85000E-01	-16116.0	-35631.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
47610	0	0	0	0.51000E-01	-23504.0	-23135.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47725	0	0	0	0.54000E-01	-17740.0	-36303.0	0.0	6.71	1000.00	1.98	0.30	0.00	0.00	0.00
67725	0	0	0	0.66000E-01	-17740.0	-36303.0	0.0	3.05	1000.00	2.43	0.30	0.00	0.00	0.00
47790	0	0	0	0.29000E-01	-23967.0	-15848.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47824	0	0	0	0.87000E-01	-25846.0	-26774.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
67947	0	0	0	0.65000E-01	-24270.0	-30940.0	0.0	3.05	1000.00	3.14	0.30	0.00	0.00	0.00
47998	0	0	0	0.41000E-01	-24996.0	-29977.0	0.0	6.71	1000.00	0.67	0.30	0.00	0.00	0.00
48102	0	0	0	0.10100E+00	-21503.0	-19339.0	0.0	6.71	1000.00	4.93	0.30	0.00	0.00	0.00
48218	0	0	0	0.52600E+00	-11829.0	-38344.0	0.0	6.71	1000.00	10.85	0.30	0.00	0.00	0.00
48297	0	0	0	0.20800E+00	-20741.0	-18926.0	0.0	6.71	1000.00	10.18	0.30	0.00	0.00	0.00
48404	0	0	0	0.13550E+01	-21294.0	-36831.0	0.0	6.71	1000.00	49.61	0.30	0.00	0.00	0.00
68454	0	0	0	0.39000E-01	-22691.0	-30351.0	0.0	3.05	1000.00	1.90	0.30	0.00	0.00	0.00
48580	0	0	0	0.20300E+00	-20172.0	-34038.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
47411	0	0	0	0.25000E-01	-25464.0	-23176.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
46613	0	0	0	0.61000E-01	-25428.0	-22238.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
46614	0	0	0	0.25000E-01	-25458.0	-23972.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
46626	0	0	0	0.45300E+00	-16556.0	-30805.0	0.0	6.71	1000.00	11.41	0.30	0.00	0.00	0.00
46633	0	0	0	0.51000E-01	-22040.0	-24583.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
46663	0	0	0	0.16500E+00	-18036.0	-29502.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
46708	0	0	0	0.61000E-01	-24332.0	-23002.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
46710	0	0	0	0.12600E+00	-19655.0	-27947.0	0.0	6.71	1000.00	4.62	0.30	0.00	0.00	0.00
46758	0	0	0	0.13400E+00	-20432.0	-23748.0	0.0	6.71	1000.00	4.90	0.30	0.00	0.00	0.00
66758	0	0	0	0.33700E+00	-20432.0	-23748.0	0.0	3.05	1000.00	12.33	0.30	0.00	0.00	0.00
46767	0	0	0	0.23800E+00	-24565.0	-25389.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
66767	0	0	0	0.33000E-01	-24565.0	-25389.0	0.0	3.05	1000.00	0.67	0.30	0.00	0.00	0.00
46776	0	0	0	0.30000E-01	-21598.0	-15373.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
46883	0	0	0	0.51000E-01	-20623.0	-24364.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
46960	0	0	0	0.12900E+00	-17424.0	-29543.0	0.0	6.71	1000.00	4.72	0.30	0.00	0.00	0.00
66960	0	0	0	0.64000E-01	-17424.0	-29543.0	0.0	3.05	1000.00	2.35	0.30	0.00	0.00	0.00
47044	0	0	0	0.70000E-01	-25462.0	-28782.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47322	0	0	0	0.65400E+00	-25868.0	-29253.0	0.0	6.71	1000.00	10.84	0.30	0.00	0.00	0.00
47441	0	0	0	0.51000E-01	-23611.0	-21911.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47615	0	0	0	0.21200E+00	-25838.0	-28347.0	0.0	6.71	1000.00	4.92	0.30	0.00	0.00	0.00
47752	0	0	0	0.18900E+00	-25756.0	-29994.0	0.0	6.71	1000.00	6.91	0.30	0.00	0.00	0.00
47756	0	0	0	0.51000E-01	-19787.0	-24357.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47769	0	0	0	0.75000E-01	-25310.0	-27575.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
48427	0	0	0	0.31000E-01	-22302.0	-14169.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
48702	0	0	0	0.41000E-01	-19827.0	-19336.0	0.0	6.71	1000.00	1.50	0.30	0.00	0.00	0.00
49290	0	0	0	0.40500E+00	-21403.0	-31204.0	0.0	6.71	1000.00	10.84	0.30	0.00	0.00	0.00
49827	0	0	0	0.57000E-01	-17320.0	-36785.0	0.0	6.71	1000.00	2.10	0.30	0.00	0.00	0.00
69827	0	0	0	0.16000E-01	-17320.0	-36785.0	0.0	3.05	1000.00	0.58	0.30	0.00	0.00	0.00
50217	0	0	0	0.55000E-01	-16917.0	-37540.0	0.0	6.71	1000.00	1.53	0.30	0.00	0.00	0.00
70217	0	0	0	0.75000E-01	-16917.0	-37540.0	0.0	3.05	1000.00	2.10	0.30	0.00	0.00	0.00
47210	0	0	0	0.50000E-01	-20326.0	-27076.0	0.0	6.71	1000.00	1.85	0.30	0.00	0.00	0.00
48234	0	0	0	0.14070E+01	2642.0	-64532.0	0.0	6.71	1000.00	15.50	0.30	0.00	0.00	0.00
49078	0	0	0	0.10490E+01	3027.0	-64062.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48070	0	0	0	0.18240E+01	2218.0	-64089.0	0.0	6.71	1000.00	15.28	0.30	0.00	0.00	0.00
48530	0	0	0	0.15800E+00	-4193.0	-591.0	0.0	6.40	1000.00	13.61	0.30	0.00	0.00	0.00
68530	0	0	0	0.38600E+00	-4193.0	-591.0	0.0	1.52	1000.00	33.37	0.30	0.00	0.00	0.00
48128	0	0	0	0.85000E+00	15499.0	-63827.0	0.0	6.71	1000.00	15.95	0.30	0.00	0.00	0.00
48430	0	0	0	0.48400E+00	14227.0	-65449.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
48429	0	0	0	0.46300E+00	14896.0	-64050.0	0.0	6.71	1000.00	7.65	0.30	0.00	0.00	0.00
48853	0	0	0	0.66100E+00	15502.0	-64259.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49183	0	0	0	0.32700E+00	12331.0	-65327.0	0.0	6.71	1000.00	6.13	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
69183	0	0	0	0.10000E-02	12331.0	-65327.0	0.0	3.05	1000.00	0.02	0.30	0.00	0.00	0.00
49216	0	0	0	0.60400E+00	12647.0	-64475.0	0.0	6.71	1000.00	9.73	0.30	0.00	0.00	0.00
49214	0	0	0	0.40800E+00	13393.0	-64558.0	0.0	6.71	1000.00	10.46	0.30	0.00	0.00	0.00
69214	0	0	0	0.10000E-02	13393.0	-64558.0	0.0	3.05	1000.00	0.02	0.30	0.00	0.00	0.00
49561	0	0	0	0.23300E+00	13383.0	-62242.0	0.0	9.75	1000.00	4.75	0.30	0.00	0.00	0.00
69561	0	0	0	0.17000E-01	13383.0	-62242.0	0.0	2.44	1000.00	0.34	0.30	0.00	0.00	0.00
49567	0	0	0	0.41200E+00	14172.0	-65423.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
69567	0	0	0	0.57200E+00	14172.0	-65423.0	0.0	0.30	1000.00	12.92	0.30	0.00	0.00	0.00
49577	0	0	0	0.72900E+00	14761.0	-62207.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49578	0	0	0	0.46100E+00	14217.0	-62240.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49581	0	0	0	0.43200E+00	12410.0	-62569.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49585	0	0	0	0.41200E+00	14172.0	-65423.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
69585	0	0	0	0.10000E-02	14172.0	-65423.0	0.0	0.30	1000.00	0.02	0.30	0.00	0.00	0.00
49607	0	0	0	0.10740E+01	13048.0	-60151.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
69607	0	0	0	0.74500E+00	13048.0	-60151.0	0.0	3.05	1000.00	8.60	0.30	0.00	0.00	0.00
49295	0	0	0	0.24000E+00	13345.0	-62288.0	0.0	9.75	1000.00	4.89	0.30	0.00	0.00	0.00
69295	0	0	0	0.16000E-01	13345.0	-62288.0	0.0	2.44	1000.00	0.32	0.30	0.00	0.00	0.00
49182	0	0	0	0.19900E+00	13181.0	-65259.0	0.0	6.71	1000.00	3.73	0.30	0.00	0.00	0.00
69182	0	0	0	0.10000E-02	13181.0	-65259.0	0.0	3.05	1000.00	0.01	0.30	0.00	0.00	0.00
49626	0	0	0	0.30500E+00	13345.0	-62288.0	0.0	9.75	1000.00	6.20	0.30	0.00	0.00	0.00
69626	0	0	0	0.10000E-02	13345.0	-62288.0	0.0	2.44	1000.00	0.01	0.30	0.00	0.00	0.00
49641	0	0	0	0.66100E+00	16660.0	-61640.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
48422	0	0	0	0.66100E+00	15699.0	-62979.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
48490	0	0	0	0.51200E+00	14778.0	-65408.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48671	0	0	0	0.53500E+00	14172.0	-65423.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
68671	0	0	0	0.14010E+01	14172.0	-65423.0	0.0	2.44	1000.00	24.39	0.30	0.00	0.00	0.00
49743	0	0	0	0.56500E+00	14259.0	-63843.0	0.0	6.71	1000.00	10.59	0.30	0.00	0.00	0.00
49215	0	0	0	0.37500E+00	13407.0	-63860.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
49756	0	0	0	0.66100E+00	15054.0	-63011.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49772	0	0	0	0.20900E+00	13345.0	-62288.0	0.0	9.75	1000.00	4.25	0.30	0.00	0.00	0.00
69772	0	0	0	0.11000E-01	13345.0	-62288.0	0.0	2.44	1000.00	0.22	0.30	0.00	0.00	0.00
49856	0	0	0	0.65000E-01	14930.0	-61438.0	0.0	6.71	1000.00	1.07	0.30	0.00	0.00	0.00
69856	0	0	0	0.70000E-02	14930.0	-61438.0	0.0	3.05	1000.00	0.12	0.30	0.00	0.00	0.00
49900	0	0	0	0.66100E+00	11543.0	-63959.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49990	0	0	0	0.49600E+00	13413.0	-61017.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
69990	0	0	0	0.60000E+00	13413.0	-61017.0	0.0	3.05	1000.00	14.99	0.30	0.00	0.00	0.00
50178	0	0	0	0.67400E+00	12129.0	-62262.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
70178	0	0	0	0.65300E+00	12129.0	-62262.0	0.0	3.05	1000.00	12.02	0.30	0.00	0.00	0.00
50215	0	0	0	0.49600E+00	13892.0	-61460.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
70215	0	0	0	0.20000E-02	13892.0	-61460.0	0.0	3.05	1000.00	0.04	0.30	0.00	0.00	0.00
50303	0	0	0	0.66100E+00	15438.0	-62230.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
50868	0	0	0	0.12200E+00	14716.0	-60562.0	0.0	6.71	1000.00	1.91	0.30	0.00	0.00	0.00
70868	0	0	0	0.59000E-01	14716.0	-60562.0	0.0	3.05	1000.00	0.92	0.30	0.00	0.00	0.00
50915	0	0	0	0.25000E+00	13225.0	-63702.0	0.0	9.75	1000.00	6.20	0.30	0.00	0.00	0.00
70915	0	0	0	0.24800E+00	13225.0	-63702.0	0.0	2.44	1000.00	6.15	0.30	0.00	0.00	0.00
51079	0	0	0	0.73300E+00	14735.0	-63801.0	0.0	6.71	1000.00	13.74	0.30	0.00	0.00	0.00
51240	0	0	0	0.10200E+00	14961.0	-59769.0	0.0	6.71	1000.00	1.91	0.30	0.00	0.00	0.00
71240	0	0	0	0.70000E-02	14961.0	-59769.0	0.0	3.05	1000.00	0.13	0.30	0.00	0.00	0.00
48439	0	0	0	0.70000E-02	9832.0	3629.0	0.0	6.71	1000.00	0.62	0.30	0.00	0.00	0.00
49300	0	0	0	0.74500E+00	10204.0	2367.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
71980	0	0	0	0.10000E-01	14921.0	7966.0	0.0	3.05	1000.00	0.51	0.30	0.00	0.00	0.00
52164	0	0	0	0.40000E-01	11750.0	5737.0	0.0	6.10	1000.00	4.62	0.30	0.00	0.00	0.00
72164	0	0	0	0.22200E+00	11750.0	5737.0	0.0	1.52	1000.00	25.42	0.30	0.00	0.00	0.00
48238	0	0	0	0.76000E-01	-13021.0	-39517.0	0.0	6.71	1000.00	1.88	0.30	0.00	0.00	0.00
49220	0	0	0	0.32700E+00	-12414.0	-39631.0	0.0	6.71	1000.00	6.22	0.30	0.00	0.00	0.00
46643	0	0	0	0.17700E+00	-9269.0	-41372.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46747	0	0	0	0.10900E+00	-9379.0	-40685.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
48440	0	0	0	0.21000E-01	1099.0	-7792.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
68440	0	0	0	0.10000E-01	1099.0	-7792.0	0.0	0.30	1000.00	1.47	0.30	0.00	0.00	0.00
48399	0	0	0	0.90000E-02	1950.0	-6469.0	0.0	6.71	1000.00	1.43	0.30	0.00	0.00	0.00
68399	0	0	0	0.75000E-01	1950.0	-6469.0	0.0	0.30	1000.00	12.25	0.30	0.00	0.00	0.00
51150	0	0	0	0.89000E-01	1012.0	-6031.0	0.0	6.71	1000.00	13.54	0.30	0.00	0.00	0.00
71150	0	0	0	0.10400E+00	1012.0	-6031.0	0.0	3.05	1000.00	15.76	0.30	0.00	0.00	0.00
51371	0	0	0	0.90000E-01	1462.0	-5689.0	0.0	6.71	1000.00	13.66	0.30	0.00	0.00	0.00
71371	0	0	0	0.68000E-01	1462.0	-5689.0	0.0	3.05	1000.00	10.36	0.30	0.00	0.00	0.00
51781	0	0	0	0.89000E-01	285.0	-6117.0	0.0	6.71	1000.00	13.54	0.30	0.00	0.00	0.00
71781	0	0	0	0.54000E-01	285.0	-6117.0	0.0	3.05	1000.00	8.22	0.30	0.00	0.00	0.00
49668	0	0	0	0.65000E-01	4888.0	6860.0	0.0	6.71	1000.00	8.12	0.30	0.00	0.00	0.00
49795	0	0	0	0.55000E-01	4079.0	7244.0	0.0	6.71	1000.00	6.87	0.30	0.00	0.00	0.00
49887	0	0	0	0.50000E-01	5519.0	6826.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50138	0	0	0	0.65000E-01	3252.0	7218.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
50139	0	0	0	0.54000E-01	2856.0	7571.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
50734	0	0	0	0.50000E-02	2023.0	7506.0	0.0	6.71	1000.00	0.62	0.30	0.00	0.00	0.00
48706	0	0	0	0.11300E+00	6403.0	-4024.0	0.0	6.71	1000.00	1.13	0.30	0.00	0.00	0.00
68706	0	0	0	0.60000E-02	6403.0	-4024.0	0.0	3.05	1000.00	0.06	0.30	0.00	0.00	0.00
49029	0	0	0	0.19800E+00	8680.0	-4283.0	0.0	6.71	1000.00	13.84	0.30	0.00	0.00	0.00
49139	0	0	0	0.81000E-01	7056.0	-3964.0	0.0	6.71	1000.00	5.58	0.30	0.00	0.00	0.00
49479	0	0	0	0.18000E-01	7869.0	-4450.0	0.0	6.71	1000.00	1.25	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
49328	0	0	0	0.20900E+00	8326.0	-4795.0	0.0	6.71	1000.00	14.33	0.30	0.00	0.00	0.00
69328	0	0	0	0.15000E-01	8326.0	-4795.0	0.0	3.05	1000.00	1.02	0.30	0.00	0.00	0.00
47845	0	0	0	0.24000E-01	6576.0	-5172.0	0.0	6.71	1000.00	1.63	0.30	0.00	0.00	0.00
67845	0	0	0	0.23000E-01	6576.0	-5172.0	0.0	3.05	1000.00	1.57	0.30	0.00	0.00	0.00
48565	0	0	0	0.16000E-01	5107.0	-4852.0	0.0	7.32	1000.00	0.65	0.30	0.00	0.00	0.00
68565	0	0	0	0.95000E-01	5107.0	-4852.0	0.0	4.88	1000.00	3.91	0.30	0.00	0.00	0.00
49770	0	0	0	0.10000E+00	6473.0	-2868.0	0.0	6.71	1000.00	6.87	0.30	0.00	0.00	0.00
51270	0	0	0	0.50000E-02	5963.0	-4957.0	0.0	7.32	1000.00	0.82	0.30	0.00	0.00	0.00
47385	0	0	0	0.60000E-02	9968.0	-25280.0	0.0	6.71	1000.00	0.18	0.30	0.00	0.00	0.00
51564	0	0	0	0.12300E+00	9881.0	-25936.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46083	0	0	0	0.50000E+00	14498.0	-52024.0	0.0	4.57	1000.00	7.89	0.30	0.00	0.00	0.00
66083	0	0	0	0.49000E-01	14498.0	-52024.0	0.0	0.30	1000.00	0.78	0.30	0.00	0.00	0.00
46566	0	0	0	0.53600E+00	14416.0	-50449.0	0.0	4.57	1000.00	8.30	0.30	0.00	0.00	0.00
66566	0	0	0	0.13700E+00	14416.0	-50449.0	0.0	0.30	1000.00	2.12	0.30	0.00	0.00	0.00
46552	0	0	0	0.40100E+00	15118.0	-50647.0	0.0	4.57	1000.00	7.43	0.30	0.00	0.00	0.00
66552	0	0	0	0.58000E-01	15118.0	-50647.0	0.0	0.30	1000.00	1.08	0.30	0.00	0.00	0.00
46698	0	0	0	0.24100E+00	18305.0	-46731.0	0.0	4.57	1000.00	3.99	0.30	0.00	0.00	0.00
66698	0	0	0	0.35000E-01	18305.0	-46731.0	0.0	0.30	1000.00	0.58	0.30	0.00	0.00	0.00
47098	0	0	0	0.70000E-01	15118.0	-50647.0	0.0	4.57	1000.00	1.53	0.30	0.00	0.00	0.00
67098	0	0	0	0.12000E-01	15118.0	-50647.0	0.0	0.30	1000.00	0.26	0.30	0.00	0.00	0.00
47224	0	0	0	0.15900E+00	15076.0	-51449.0	0.0	6.71	1000.00	2.73	0.30	0.00	0.00	0.00
67224	0	0	0	0.43000E-01	15076.0	-51449.0	0.0	3.05	1000.00	0.75	0.30	0.00	0.00	0.00
47314	0	0	0	0.45700E+00	14640.0	-54897.0	0.0	4.57	1000.00	14.72	0.30	0.00	0.00	0.00
67314	0	0	0	0.48000E-01	14640.0	-54897.0	0.0	0.30	1000.00	1.52	0.30	0.00	0.00	0.00
47313	0	0	0	0.31700E+00	18361.0	-46733.0	0.0	4.57	1000.00	4.69	0.30	0.00	0.00	0.00
67313	0	0	0	0.37000E-01	18361.0	-46733.0	0.0	0.30	1000.00	0.55	0.30	0.00	0.00	0.00
47496	0	0	0	0.51100E+00	18251.0	-42798.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
47705	0	0	0	0.16500E+00	16465.0	-50586.0	0.0	6.71	1000.00	2.72	0.30	0.00	0.00	0.00
67705	0	0	0	0.80000E-02	16465.0	-50586.0	0.0	3.05	1000.00	0.14	0.30	0.00	0.00	0.00
68340	0	0	0	0.17400E+01	14541.0	-51648.0	0.0	9.14	1000.00	3.10	0.30	0.00	0.00	0.00
48811	0	0	0	0.13800E+00	15313.0	-51791.0	0.0	6.71	1000.00	2.56	0.30	0.00	0.00	0.00
68811	0	0	0	0.24000E-01	15313.0	-51791.0	0.0	3.05	1000.00	0.45	0.30	0.00	0.00	0.00
48854	0	0	0	0.16200E+00	15671.0	-51910.0	0.0	6.71	1000.00	2.65	0.30	0.00	0.00	0.00
68854	0	0	0	0.10000E-01	15671.0	-51910.0	0.0	3.05	1000.00	0.17	0.30	0.00	0.00	0.00
46403	0	0	0	0.54000E+00	14066.0	-51073.0	0.0	4.57	1000.00	8.06	0.30	0.00	0.00	0.00
66403	0	0	0	0.11200E+00	14066.0	-51073.0	0.0	0.30	1000.00	1.67	0.30	0.00	0.00	0.00
48162	0	0	0	0.72000E-01	14375.0	-52720.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
68162	0	0	0	0.44000E-01	14375.0	-52720.0	0.0	3.05	1000.00	0.77	0.30	0.00	0.00	0.00
46926	0	0	0	0.39000E-01	14416.0	-50449.0	0.0	4.57	1000.00	0.38	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
66926	0	0	0	0.10000E-01	14416.0	-50449.0	0.0	0.30	1000.00	0.10	0.30	0.00	0.00	0.00
49643	0	0	0	0.52000E-01	14066.0	-51073.0	0.0	4.57	1000.00	0.62	0.30	0.00	0.00	0.00
69643	0	0	0	0.11000E-01	14066.0	-51073.0	0.0	0.30	1000.00	0.13	0.30	0.00	0.00	0.00
48937	0	0	0	0.47100E+00	18326.0	-43102.0	0.0	4.57	1000.00	8.74	0.30	0.00	0.00	0.00
68937	0	0	0	0.37000E-01	18326.0	-43102.0	0.0	0.30	1000.00	0.69	0.30	0.00	0.00	0.00
47481	0	0	0	0.21100E+00	18029.0	-45939.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
47483	0	0	0	0.16600E+00	15790.0	-51127.0	0.0	6.71	1000.00	2.73	0.30	0.00	0.00	0.00
67483	0	0	0	0.20000E-01	15790.0	-51127.0	0.0	3.05	1000.00	0.33	0.30	0.00	0.00	0.00
49865	0	0	0	0.76000E-01	14588.0	-53407.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
69865	0	0	0	0.80000E-01	14588.0	-53407.0	0.0	3.05	1000.00	1.31	0.30	0.00	0.00	0.00
50460	0	0	0	0.45300E+00	18314.0	-45102.0	0.0	4.57	1000.00	8.81	0.30	0.00	0.00	0.00
70460	0	0	0	0.58000E-01	18314.0	-45102.0	0.0	0.30	1000.00	1.13	0.30	0.00	0.00	0.00
51178	0	0	0	0.52000E+00	8565.0	-54393.0	0.0	4.57	1000.00	9.52	0.30	0.00	0.00	0.00
71178	0	0	0	0.12800E+00	8565.0	-54393.0	0.0	0.30	1000.00	2.34	0.30	0.00	0.00	0.00
51817	0	0	0	0.42600E+00	13672.0	-53663.0	0.0	8.23	1000.00	4.96	0.30	0.00	0.00	0.00
71817	0	0	0	0.31670E+01	13672.0	-53663.0	0.0	3.05	1000.00	36.93	0.30	0.00	0.00	0.00
51818	0	0	0	0.76000E-01	13910.0	-52754.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
71818	0	0	0	0.35000E-01	13910.0	-52754.0	0.0	3.05	1000.00	0.58	0.30	0.00	0.00	0.00
51821	0	0	0	0.40700E+00	15839.0	-51251.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
52163	0	0	0	0.39800E+00	8533.0	-56915.0	0.0	4.57	1000.00	8.86	0.30	0.00	0.00	0.00
72163	0	0	0	0.52740E+01	8533.0	-56915.0	0.0	0.30	1000.00	117.51	0.30	0.00	0.00	0.00
49480	0	0	0	0.14000E+00	10863.0	8573.0	0.0	6.71	1000.00	7.44	0.30	0.00	0.00	0.00
71000	0	0	0	0.61800E+00	10464.0	8112.0	0.0	3.05	1000.00	27.91	0.30	0.00	0.00	0.00
48717	0	0	0	0.30000E-02	2546.0	-18172.0	0.0	6.71	1000.00	2.80	0.30	0.00	0.00	0.00
68717	0	0	0	0.18000E-01	2546.0	-18172.0	0.0	0.30	1000.00	17.91	0.30	0.00	0.00	0.00
46959	0	0	0	0.34700E+00	24971.0	-55351.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
66959	0	0	0	0.83650E+01	24971.0	-55351.0	0.0	6.10	1000.00	55.41	0.30	0.00	0.00	0.00
47932	0	0	0	0.30000E-02	-1093.0	9916.0	0.0	6.71	1000.00	0.35	0.30	0.00	0.00	0.00
51027	0	0	0	0.20000E-02	-1898.0	9902.0	0.0	6.71	1000.00	0.23	0.30	0.00	0.00	0.00
51762	0	0	0	0.30000E-02	810.0	7933.0	0.0	6.71	1000.00	2.77	0.30	0.00	0.00	0.00
49276	0	0	0	0.31600E+00	9360.0	-37296.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
69276	0	0	0	0.10000E+00	9360.0	-37296.0	0.0	3.05	1000.00	3.33	0.30	0.00	0.00	0.00
48484	0	0	0	0.27300E+00	9361.0	-37803.0	0.0	6.71	1000.00	10.54	0.30	0.00	0.00	0.00
68484	0	0	0	0.61000E-01	9361.0	-37803.0	0.0	3.05	1000.00	2.36	0.30	0.00	0.00	0.00
47549	0	0	0	0.98000E-01	-17663.0	-41563.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47803	0	0	0	0.94000E-01	-15633.0	-43914.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
48207	0	0	0	0.13300E+00	-18467.0	-41972.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
48902	0	0	0	0.93000E-01	-16432.0	-44347.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47206	0	0	0	0.14300E+00	-21693.0	-45256.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00

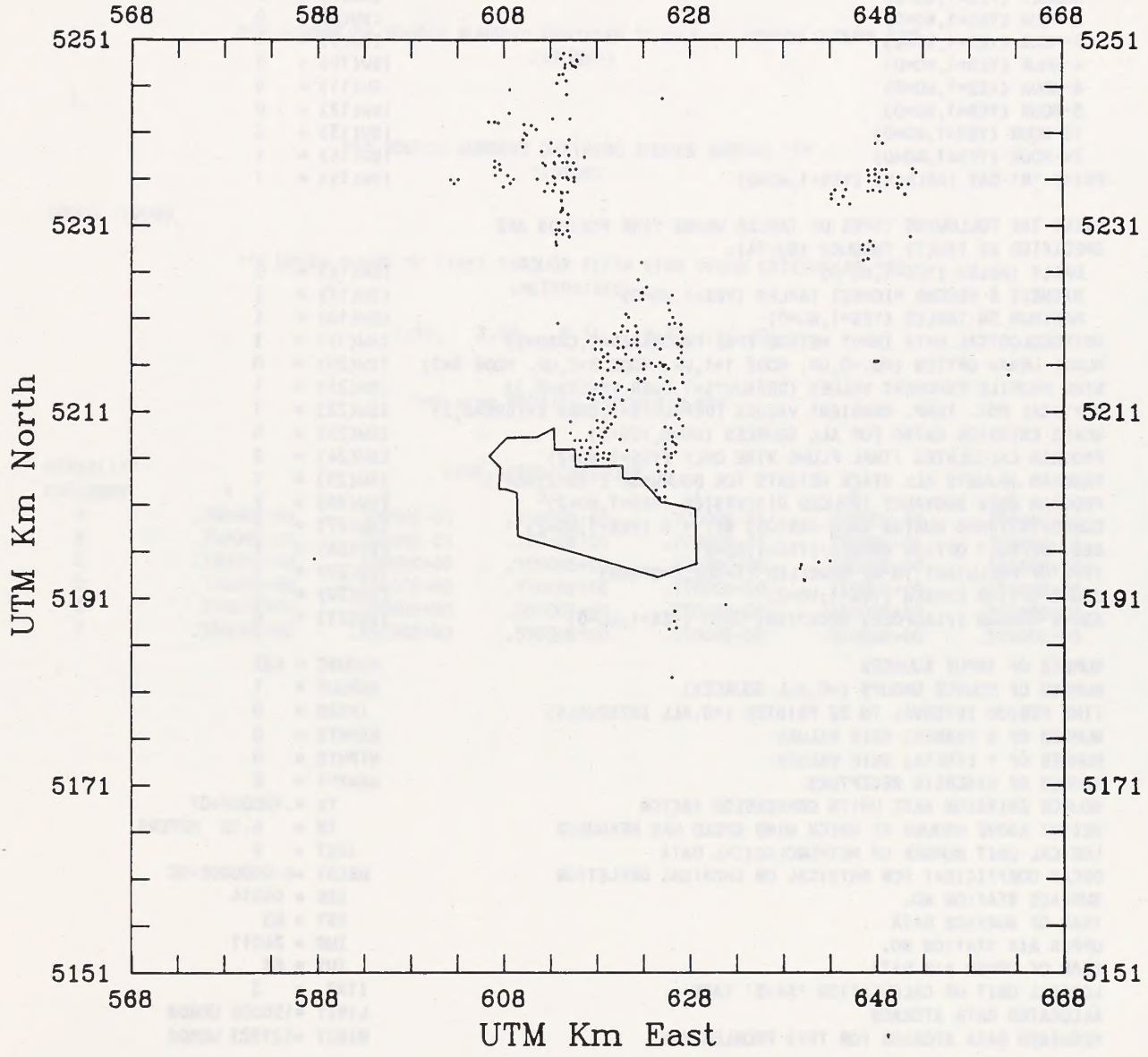
*** THEODORE ROOSEVELT NORTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
48372	0	0 0	0	0.50300E+00	16789.0	-6236.0	0.0	6.71	1000.00	3.20	0.30	0.00	0.00	0.00
71926	0	0 0	0	0.26000E-01	23895.0	2382.0	0.0	6.10	1000.00	0.15	0.30	0.00	0.00	0.00
47823	0	0 0	0	0.16400E+00	18934.0	-38332.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
67823	0	0 0	0	0.15370E+01	18934.0	-38332.0	0.0	3.05	1000.00	58.12	0.30	0.00	0.00	0.00
47011	0	0 0	0	0.58800E+00	26162.0	-78840.0	0.0	6.71	1000.00	12.28	0.30	0.00	0.00	0.00
47104	0	0 0	0	0.40500E+00	25740.0	-78045.0	0.0	6.71	1000.00	11.08	0.30	0.00	0.00	0.00
47463	0	0 0	0	0.18700E+00	25627.0	-77290.0	0.0	6.71	1000.00	4.37	0.30	0.00	0.00	0.00
47675	0	0 0	0	0.86000E-01	26078.0	-76427.0	0.0	6.71	1000.00	0.95	0.30	0.00	0.00	0.00
51313	0	0 0	0	0.14100E+00	24187.0	-38863.0	0.0	6.71	1000.00	5.49	0.30	0.00	0.00	0.00
71313	0	0 0	0	0.13200E+00	24187.0	-38863.0	0.0	3.05	1000.00	5.14	0.30	0.00	0.00	0.00
40000	0	0 0	0	0.19000E+01	28904.0	-4568.0	0.0	13.90	440.00	19.50	0.40	0.00	0.00	0.00

Theodore Roosevelt National Park
South Unit

Figure B-52
Theodore Roosevelt National Park - South Unit
Locations of Existing PSD Sources of SO_2



*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 1
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 0
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 1
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 2
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 1
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 423
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 1
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 0
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 8
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 6.10 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 94014
YEAR OF SURFACE DATA	ISY = 83
UPPER AIR STATION NO.	IUS = 24011
YEAR OF UPPER AIR DATA	IUY = 83
LOGICAL UNIT OF CALCULATION 'SAVE' TAPE	ITAP = 3
ALLOCATED DATA STORAGE	LIMIT =150000 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT =121923 WORDS

*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 0
```

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

2,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

40000,-79999,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(18813.0, -2975.0), (23684.0, -2696.0), (28556.0, -2417.0), (13232.0, 2027.0), (18509.0, 2329.0),
(23380.0, 2608.0), (8080.0, 6643.0), (12951.0, 6922.0), (

*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE E	WAK E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
68075	0	0	0	0.17000E-01	13697.0	20486.0	0.0	3.05	1000.00	1.43	0.30	0.00	0.00	0.00
46270	0	0	0	0.15300E+00	18449.0	17719.0	0.0	6.71	1000.00	5.92	0.30	0.00	0.00	0.00
46970	0	0	0	0.19500E+00	20652.0	13742.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
66970	0	0	0	0.50000E-02	20652.0	13742.0	0.0	3.05	1000.00	0.24	0.30	0.00	0.00	0.00
46968	0	0	0	0.29100E+00	21677.0	18178.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47148	0	0	0	0.43500E+00	21406.0	21162.0	0.0	6.71	1000.00	10.53	0.30	0.00	0.00	0.00
47154	0	0	0	0.28300E+00	21712.0	18790.0	0.0	6.71	1000.00	7.86	0.30	0.00	0.00	0.00
47275	0	0	0	0.45100E+00	21045.0	17220.0	0.0	6.71	1000.00	11.78	0.30	0.00	0.00	0.00
47381	0	0	0	0.26000E-01	19149.0	15509.0	0.0	6.71	1000.00	0.91	0.30	0.00	0.00	0.00
47380	0	0	0	0.30100E+00	20826.0	17934.0	0.0	6.71	1000.00	9.62	0.30	0.00	0.00	0.00
47398	0	0	0	0.90000E-02	18319.0	16363.0	0.0	6.71	1000.00	0.33	0.30	0.00	0.00	0.00
47446	0	0	0	0.35000E+00	18552.0	14615.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
67446	0	0	0	0.50000E-01	18552.0	14615.0	0.0	3.05	1000.00	1.33	0.30	0.00	0.00	0.00
47465	0	0	0	0.38000E-01	23158.0	14596.0	0.0	6.71	1000.00	1.23	0.30	0.00	0.00	0.00
67465	0	0	0	0.10000E-02	23158.0	14596.0	0.0	3.05	1000.00	0.04	0.30	0.00	0.00	0.00
47452	0	0	0	0.14200E+00	20235.0	18568.0	0.0	6.71	1000.00	3.61	0.30	0.00	0.00	0.00
47485	0	0	0	0.39600E+00	19403.0	18565.0	0.0	6.71	1000.00	15.07	0.30	0.00	0.00	0.00
47563	0	0	0	0.34600E+00	22302.0	19545.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47627	0	0	0	0.22000E-01	18412.0	18597.0	0.0	6.71	1000.00	0.69	0.30	0.00	0.00	0.00
47722	0	0	0	0.32900E+00	22764.0	14288.0	0.0	6.71	1000.00	7.45	0.30	0.00	0.00	0.00
47742	0	0	0	0.16200E+00	19780.0	15822.0	0.0	6.71	1000.00	4.89	0.30	0.00	0.00	0.00
47732	0	0	0	0.23900E+00	22333.0	14609.0	0.0	6.71	1000.00	7.41	0.30	0.00	0.00	0.00
47759	0	0	0	0.34800E+00	21311.0	19677.0	0.0	6.71	1000.00	10.96	0.30	0.00	0.00	0.00
47754	0	0	0	0.20700E+00	18338.0	15760.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47802	0	0	0	0.10400E+00	17814.0	18537.0	0.0	6.71	1000.00	6.04	0.30	0.00	0.00	0.00
47893	0	0	0	0.16400E+00	20267.0	13355.0	0.0	6.71	1000.00	4.90	0.30	0.00	0.00	0.00
48054	0	0	0	0.21700E+00	17511.0	12357.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
68054	0	0	0	0.10000E-02	17511.0	12357.0	0.0	3.05	1000.00	0.05	0.30	0.00	0.00	0.00
48043	0	0	0	0.72000E-01	22998.0	15615.0	0.0	6.71	1000.00	2.47	0.30	0.00	0.00	0.00
48190	0	0	0	0.29100E+00	17847.0	13982.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48252	0	0	0	0.97000E-01	16963.0	18565.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
49444	0	0	0	0.37800E+00	17002.0	12529.0	0.0	6.71	1000.00	12.07	0.30	0.00	0.00	0.00
46756	0	0	0	0.38000E+00	22289.0	18181.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
46969	0	0	0	0.41200E+00	22316.0	18784.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
46995	0	0	0	0.47200E+00	19872.0	14155.0	0.0	6.71	1000.00	16.28	0.30	0.00	0.00	0.00
47096	0	0	0	0.31900E+00	21064.0	21480.0	0.0	6.71	1000.00	7.73	0.30	0.00	0.00	0.00
47149	0	0	0	0.24100E+00	20663.0	20240.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
67149	0	0	0	0.20000E-02	20663.0	20240.0	0.0	3.05	1000.00	0.07	0.30	0.00	0.00	0.00
47623	0	0	0	0.10100E+00	20515.0	19566.0	0.0	6.71	1000.00	3.22	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
47268	0	0	0	0.17800E+00	20240.0	17868.0	0.0	6.71	1000.00	5.69	0.30	0.00	0.00	0.00
47274	0	0	0	0.24100E+00	19126.0	16469.0	0.0	6.71	1000.00	14.66	0.30	0.00	0.00	0.00
47295	0	0	0	0.22300E+00	18372.0	13913.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
67295	0	0	0	0.40000E-02	18372.0	13913.0	0.0	3.05	1000.00	0.18	0.30	0.00	0.00	0.00
47310	0	0	0	0.28200E+00	18340.0	13009.0	0.0	6.71	1000.00	9.02	0.30	0.00	0.00	0.00
47361	0	0	0	0.11600E+00	23018.0	16207.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47447	0	0	0	0.69400E+00	20731.0	15420.0	0.0	6.71	1000.00	19.65	0.30	0.00	0.00	0.00
47510	0	0	0	0.31900E+00	20708.0	12284.0	0.0	6.71	1000.00	10.19	0.30	0.00	0.00	0.00
47529	0	0	0	0.29100E+00	22550.0	17473.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
67529	0	0	0	0.60000E-02	22550.0	17473.0	0.0	3.05	1000.00	0.20	0.30	0.00	0.00	0.00
47544	0	0	0	0.14800E+00	21667.0	16571.0	0.0	6.71	1000.00	6.82	0.30	0.00	0.00	0.00
47645	0	0	0	0.32300E+00	22106.0	20228.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
67645	0	0	0	0.10000E-02	22106.0	20228.0	0.0	3.05	1000.00	0.03	0.30	0.00	0.00	0.00
47829	0	0	0	0.15200E+00	18653.0	16915.0	0.0	6.71	1000.00	5.89	0.30	0.00	0.00	0.00
47878	0	0	0	0.29100E+00	19849.0	19408.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
67878	0	0	0	0.30000E-02	19849.0	19408.0	0.0	3.05	1000.00	0.09	0.30	0.00	0.00	0.00
48053	0	0	0	0.21700E+00	17691.0	12914.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
68053	0	0	0	0.50000E-02	17691.0	12914.0	0.0	3.05	1000.00	0.20	0.30	0.00	0.00	0.00
48254	0	0	0	0.72000E-01	21479.0	13425.0	0.0	6.71	1000.00	2.77	0.30	0.00	0.00	0.00
48290	0	0	0	0.15200E+00	17816.0	17743.0	0.0	6.71	1000.00	5.87	0.30	0.00	0.00	0.00
48855	0	0	0	0.46000E+00	19402.0	12611.0	0.0	6.71	1000.00	14.69	0.30	0.00	0.00	0.00
49371	0	0	0	0.37100E+00	20572.0	16158.0	0.0	6.71	1000.00	9.68	0.30	0.00	0.00	0.00
50375	0	0	0	0.76000E-01	17139.0	13052.0	0.0	6.71	1000.00	2.42	0.30	0.00	0.00	0.00
50610	0	0	0	0.23300E+00	20178.0	16341.0	0.0	6.71	1000.00	7.45	0.30	0.00	0.00	0.00
50418	0	0	0	0.81000E-01	19114.0	17274.0	0.0	6.71	1000.00	2.60	0.30	0.00	0.00	0.00
51634	0	0	0	0.12900E+00	18571.0	12555.0	0.0	6.71	1000.00	4.11	0.30	0.00	0.00	0.00
47833	0	0	0	0.52300E+00	6910.0	42102.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
48008	0	0	0	0.52300E+00	7585.0	37004.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
68008	0	0	0	0.20000E-02	7585.0	37004.0	0.0	3.05	1000.00	0.03	0.30	0.00	0.00	0.00
48007	0	0	0	0.52300E+00	7486.0	37579.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
68007	0	0	0	0.11000E-01	7486.0	37579.0	0.0	3.05	1000.00	0.13	0.30	0.00	0.00	0.00
48192	0	0	0	0.52300E+00	6960.0	37969.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
68192	0	0	0	0.40000E-02	6960.0	37969.0	0.0	3.05	1000.00	0.05	0.30	0.00	0.00	0.00
47567	0	0	0	0.52300E+00	6888.0	37261.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
67567	0	0	0	0.20000E-02	6888.0	37261.0	0.0	3.05	1000.00	0.02	0.30	0.00	0.00	0.00
68291	0	0	0	0.59000E-01	7038.0	36394.0	0.0	3.05	1000.00	0.55	0.30	0.00	0.00	0.00
48472	0	0	0	0.52300E+00	7381.0	41971.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
49889	0	0	0	0.52300E+00	6291.0	42120.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
69889	0	0	0	0.48000E-01	6291.0	42120.0	0.0	3.05	1000.00	0.57	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
50713	0	0	0	0.41800E+00	8650.0	35602.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
50576	0	0	0	0.41800E+00	8364.0	36400.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
51784	0	0	0	0.41800E+00	7868.0	35187.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
71784	0	0	0	0.49400E+00	7868.0	35187.0	0.0	3.05	1000.00	5.86	0.30	0.00	0.00	0.00
48202	0	0	0	0.45700E+00	51591.0	29807.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
68202	0	0	0	0.17020E+01	51591.0	29807.0	0.0	0.30	1000.00	13.84	0.30	0.00	0.00	0.00
52134	0	0	0	0.30000E-02	25964.0	-17366.0	0.0	9.14	1000.00	1.46	0.30	0.00	0.00	0.00
72134	0	0	0	0.60000E-02	25964.0	-17366.0	0.0	1.83	1000.00	3.30	0.30	0.00	0.00	0.00
48542	0	0	0	0.10000E-02	9970.0	40183.0	0.0	6.71	1000.00	0.07	0.30	0.00	0.00	0.00
48564	0	0	0	0.59800E+00	11383.0	41326.0	0.0	10.67	1000.00	9.30	0.30	0.00	0.00	0.00
48651	0	0	0	0.52000E-01	11383.0	41326.0	0.0	10.67	1000.00	9.30	0.30	0.00	0.00	0.00
49127	0	0	0	0.11600E+00	11383.0	41326.0	0.0	10.67	1000.00	9.30	0.30	0.00	0.00	0.00
49426	0	0	0	0.84000E-01	9964.0	39461.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49007	0	0	0	0.97600E+00	10088.0	41837.0	0.0	6.71	1000.00	15.18	0.30	0.00	0.00	0.00
46310	0	0	0	0.84000E-01	10913.0	41733.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
66310	0	0	0	0.18000E-01	10913.0	41733.0	0.0	3.05	1000.00	1.96	0.30	0.00	0.00	0.00
48710	0	0	0	0.97100E+00	10167.0	40922.0	0.0	6.71	1000.00	15.10	0.30	0.00	0.00	0.00
50065	0	0	0	0.84000E-01	10437.0	40687.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
51231	0	0	0	0.31900E+00	9007.0	35998.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
52048	0	0	0	0.12000E+00	11986.0	38975.0	0.0	6.71	1000.00	13.34	0.30	0.00	0.00	0.00
72048	0	0	0	0.13800E+00	11986.0	38975.0	0.0	3.05	1000.00	15.35	0.30	0.00	0.00	0.00
45168	0	0	0	0.19500E+00	13191.0	42464.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
65168	0	0	0	0.89000E-01	13191.0	42464.0	0.0	3.05	1000.00	1.72	0.30	0.00	0.00	0.00
46912	0	0	0	0.34700E+00	13865.0	31364.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
66912	0	0	0	0.19000E-01	13865.0	31364.0	0.0	3.05	1000.00	0.33	0.30	0.00	0.00	0.00
46937	0	0	0	0.34700E+00	14801.0	31351.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
66937	0	0	0	0.71000E-01	14801.0	31351.0	0.0	3.05	1000.00	1.27	0.30	0.00	0.00	0.00
47070	0	0	0	0.34700E+00	13625.0	28953.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
67070	0	0	0	0.42000E-01	13625.0	28953.0	0.0	3.05	1000.00	0.75	0.30	0.00	0.00	0.00
47118	0	0	0	0.20900E+00	13486.0	30582.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
67118	0	0	0	0.60000E-02	13486.0	30582.0	0.0	3.05	1000.00	0.10	0.30	0.00	0.00	0.00
47165	0	0	0	0.34700E+00	14820.0	30509.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
67165	0	0	0	0.74000E-01	14820.0	30509.0	0.0	3.05	1000.00	1.33	0.30	0.00	0.00	0.00
47439	0	0	0	0.20900E+00	14974.0	29860.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
67439	0	0	0	0.24000E-01	14974.0	29860.0	0.0	3.05	1000.00	0.43	0.30	0.00	0.00	0.00
48024	0	0	0	0.66600E+00	14253.0	32790.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
68024	0	0	0	0.72000E-01	14253.0	32790.0	0.0	3.05	1000.00	1.00	0.30	0.00	0.00	0.00
49113	0	0	0	0.20800E+00	14162.0	33650.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
49428	0	0	0	0.25000E+00	14070.0	32531.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
69428	0	0	0	0.10000E+00	14070.0	32531.0	0.0	3.05	1000.00	1.50	0.30	0.00	0.00	0.00
49594	0	0	0	0.69000E-01	15056.0	42501.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
46258	0	0	0	0.34700E+00	13522.0	29309.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
66258	0	0	0	0.84000E-01	13522.0	29309.0	0.0	3.05	1000.00	1.51	0.30	0.00	0.00	0.00
46856	0	0	0	0.34700E+00	13525.0	30098.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
66856	0	0	0	0.47000E-01	13525.0	30098.0	0.0	3.05	1000.00	0.83	0.30	0.00	0.00	0.00
46905	0	0	0	0.34700E+00	14304.0	30143.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
66905	0	0	0	0.15600E+00	14304.0	30143.0	0.0	3.05	1000.00	2.80	0.30	0.00	0.00	0.00
47250	0	0	0	0.22400E+00	13942.0	30578.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
67250	0	0	0	0.34000E-01	13942.0	30578.0	0.0	3.05	1000.00	0.56	0.30	0.00	0.00	0.00
48579	0	0	0	0.20900E+00	14143.0	33754.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
68579	0	0	0	0.53000E-01	14143.0	33754.0	0.0	3.05	1000.00	0.95	0.30	0.00	0.00	0.00
48929	0	0	0	0.17500E+00	14832.0	32259.0	0.0	6.71	1000.00	3.74	0.30	0.00	0.00	0.00
68929	0	0	0	0.52000E-01	14832.0	32259.0	0.0	3.05	1000.00	1.12	0.30	0.00	0.00	0.00
50229	0	0	0	0.52000E+00	14271.0	32901.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
70229	0	0	0	0.37000E-01	14271.0	32901.0	0.0	3.05	1000.00	0.66	0.30	0.00	0.00	0.00
46579	0	0	0	0.13500E+00	23316.0	24452.0	0.0	6.71	1000.00	3.36	0.30	0.00	0.00	0.00
46830	0	0	0	0.96000E-01	22710.0	23862.0	0.0	6.71	1000.00	3.40	0.30	0.00	0.00	0.00
46884	0	0	0	0.21800E+00	22359.0	25253.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
46979	0	0	0	0.33500E+00	22107.0	23015.0	0.0	6.71	1000.00	5.21	0.30	0.00	0.00	0.00
47921	0	0	0	0.50700E+00	22860.0	23139.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49862	0	0	0	0.35600E+00	22762.0	27079.0	0.0	6.71	1000.00	8.10	0.30	0.00	0.00	0.00
46891	0	0	0	0.30000E-02	22922.0	23905.0	0.0	8.84	1000.00	0.81	0.30	0.00	0.00	0.00
46070	0	0	0	0.40000E-02	26351.0	-7766.0	0.0	6.71	1000.00	1.80	0.30	0.00	0.00	0.00
72001	0	0	0	0.90000E-02	26255.0	-11344.0	0.0	0.30	1000.00	4.31	0.30	0.00	0.00	0.00
52054	0	0	0	0.80000E-02	25683.0	-12196.0	0.0	6.71	1000.00	3.94	0.30	0.00	0.00	0.00
72054	0	0	0	0.40000E-02	25683.0	-12196.0	0.0	0.30	1000.00	1.77	0.30	0.00	0.00	0.00
52178	0	0	0	0.60000E-02	26333.0	-10272.0	0.0	3.05	1000.00	3.32	0.30	0.00	0.00	0.00
72178	0	0	0	0.10000E-01	26333.0	-10272.0	0.0	1.83	1000.00	5.58	0.30	0.00	0.00	0.00
52179	0	0	0	0.10000E-02	26515.0	-12054.0	0.0	6.71	1000.00	2.07	0.30	0.00	0.00	0.00
72179	0	0	0	0.30000E-02	26515.0	-12054.0	0.0	0.30	1000.00	6.60	0.30	0.00	0.00	0.00
52315	0	0	0	0.30000E-02	31803.0	-9582.0	0.0	6.71	1000.00	3.51	0.30	0.00	0.00	0.00
72315	0	0	0	0.30000E-02	31803.0	-9582.0	0.0	0.30	1000.00	3.51	0.30	0.00	0.00	0.00
47583	0	0	0	0.63900E+00	48172.0	40576.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
47659	0	0	0	0.63900E+00	47790.0	39793.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
47798	0	0	0	0.13300E+00	43513.0	34850.0	0.0	6.71	1000.00	0.86	0.30	0.00	0.00	0.00
48476	0	0	0	0.19400E+00	45157.0	33321.0	0.0	6.71	1000.00	1.51	0.30	0.00	0.00	0.00
48469	0	0	0	0.15200E+00	43103.0	34415.0	0.0	6.71	1000.00	1.18	0.30	0.00	0.00	0.00
48911	0	0	0	0.72400E+00	48270.0	36190.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAK	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
49153	0	0	0	0.75100E+00	49055.0	37014.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49190	0	0	0	0.62500E+00	48229.0	35674.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
49531	0	0	0	0.63900E+00	47812.0	37042.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48927	0	0	0	0.13100E+00	43143.0	33914.0	0.0	6.71	1000.00	1.02	0.30	0.00	0.00	0.00
49552	0	0	0	0.63900E+00	52262.0	36703.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49195	0	0	0	0.66200E+00	51851.0	37094.0	0.0	6.71	1000.00	4.99	0.30	0.00	0.00	0.00
69195	0	0	0	0.69100E+00	51851.0	37094.0	0.0	3.05	1000.00	5.21	0.30	0.00	0.00	0.00
49582	0	0	0	0.76600E+00	49071.0	36209.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
69582	0	0	0	0.15000E-01	49071.0	36209.0	0.0	3.05	1000.00	0.12	0.30	0.00	0.00	0.00
49196	0	0	0	0.63900E+00	47720.0	35807.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49187	0	0	0	0.63900E+00	47111.0	35794.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49154	0	0	0	0.63900E+00	47812.0	36532.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
46859	0	0	0	0.65000E-01	44264.0	35657.0	0.0	6.71	1000.00	0.50	0.30	0.00	0.00	0.00
47387	0	0	0	0.71100E+00	43914.0	33288.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
67387	0	0	0	0.57000E-01	43914.0	33288.0	0.0	3.05	1000.00	0.50	0.30	0.00	0.00	0.00
49691	0	0	0	0.63900E+00	47030.0	36926.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48168	0	0	0	0.63900E+00	48595.0	39812.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48677	0	0	0	0.59000E+00	44399.0	34143.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49188	0	0	0	0.63900E+00	47104.0	36403.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
46200	0	0	0	0.63900E+00	44676.0	34906.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
49748	0	0	0	0.39900E+00	50698.0	35453.0	0.0	8.84	1000.00	6.20	0.30	0.00	0.00	0.00
69748	0	0	0	0.74000E-01	50698.0	35453.0	0.0	4.57	1000.00	1.15	0.30	0.00	0.00	0.00
49749	0	0	0	0.47400E+00	49088.0	35402.0	0.0	7.62	1000.00	6.51	0.30	0.00	0.00	0.00
69749	0	0	0	0.59000E-01	49088.0	35402.0	0.0	6.10	1000.00	0.80	0.30	0.00	0.00	0.00
49787	0	0	0	0.10920E+01	47634.0	34830.0	0.0	6.71	1000.00	6.29	0.30	0.00	0.00	0.00
69787	0	0	0	0.76000E-01	47634.0	34830.0	0.0	6.10	1000.00	0.44	0.30	0.00	0.00	0.00
50056	0	0	0	0.11310E+01	48332.0	34678.0	0.0	6.71	1000.00	6.12	0.30	0.00	0.00	0.00
70056	0	0	0	0.82000E-01	48332.0	34678.0	0.0	6.10	1000.00	0.44	0.30	0.00	0.00	0.00
50079	0	0	0	0.68700E+00	50295.0	36228.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
50168	0	0	0	0.13300E+00	47057.0	34697.0	0.0	6.71	1000.00	1.03	0.30	0.00	0.00	0.00
50207	0	0	0	0.79900E+00	50193.0	35539.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
70207	0	0	0	0.43500E+00	50193.0	35539.0	0.0	3.05	1000.00	3.38	0.30	0.00	0.00	0.00
50188	0	0	0	0.79900E+00	50302.0	35039.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
70188	0	0	0	0.22400E+00	50302.0	35039.0	0.0	3.05	1000.00	1.74	0.30	0.00	0.00	0.00
50520	0	0	0	0.78300E+00	47233.0	29391.0	0.0	6.71	1000.00	6.08	0.30	0.00	0.00	0.00
70520	0	0	0	0.75000E-01	47233.0	29391.0	0.0	3.05	1000.00	0.58	0.30	0.00	0.00	0.00
50603	0	0	0	0.15970E+01	47054.0	28393.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
70603	0	0	0	0.81000E-01	47054.0	28393.0	0.0	3.05	1000.00	0.63	0.30	0.00	0.00	0.00
50213	0	0	0	0.63900E+00	48551.0	37000.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
50669	0	0	0	0.48600E+00	47599.0	28903.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
50276	0	0	0	0.79900E+00	51429.0	35472.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
50821	0	0	0	0.15970E+01	47055.0	27481.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
70821	0	0	0	0.20100E+00	47055.0	27481.0	0.0	3.05	1000.00	1.56	0.30	0.00	0.00	0.00
51116	0	0	0	0.63900E+00	46541.0	27320.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
51171	0	0	0	0.15970E+01	46414.0	28469.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
71171	0	0	0	0.35200E+00	46414.0	28469.0	0.0	3.05	1000.00	2.73	0.30	0.00	0.00	0.00
51360	0	0	0	0.49500E+00	46484.0	28970.0	0.0	7.62	1000.00	4.96	0.30	0.00	0.00	0.00
51521	0	0	0	0.79900E+00	51012.0	34393.0	0.0	6.71	1000.00	6.20	0.30	0.00	0.00	0.00
71521	0	0	0	0.87000E+00	51012.0	34393.0	0.0	3.05	1000.00	6.75	0.30	0.00	0.00	0.00
51417	0	0	0	0.50000E-02	-12449.0	-4676.0	0.0	6.71	1000.00	1.90	0.30	0.00	0.00	0.00
48234	0	0	0	0.14070E+01	2642.0	35468.0	0.0	6.71	1000.00	15.50	0.30	0.00	0.00	0.00
49078	0	0	0	0.10490E+01	3027.0	35938.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48070	0	0	0	0.18240E+01	2218.0	35911.0	0.0	6.71	1000.00	15.28	0.30	0.00	0.00	0.00
48128	0	0	0	0.85000E+00	15499.0	36173.0	0.0	6.71	1000.00	15.95	0.30	0.00	0.00	0.00
48430	0	0	0	0.48400E+00	14227.0	34551.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
48429	0	0	0	0.46300E+00	14896.0	35950.0	0.0	6.71	1000.00	7.65	0.30	0.00	0.00	0.00
48853	0	0	0	0.66100E+00	15502.0	35741.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49183	0	0	0	0.32700E+00	12331.0	34673.0	0.0	6.71	1000.00	6.13	0.30	0.00	0.00	0.00
69183	0	0	0	0.10000E-02	12331.0	34673.0	0.0	3.05	1000.00	0.02	0.30	0.00	0.00	0.00
49216	0	0	0	0.60400E+00	12647.0	35525.0	0.0	6.71	1000.00	9.73	0.30	0.00	0.00	0.00
49214	0	0	0	0.40800E+00	13393.0	35442.0	0.0	6.71	1000.00	10.46	0.30	0.00	0.00	0.00
69214	0	0	0	0.10000E-02	13393.0	35442.0	0.0	3.05	1000.00	0.02	0.30	0.00	0.00	0.00
49561	0	0	0	0.23300E+00	13383.0	37758.0	0.0	9.75	1000.00	4.75	0.30	0.00	0.00	0.00
69561	0	0	0	0.17000E-01	13383.0	37758.0	0.0	2.44	1000.00	0.34	0.30	0.00	0.00	0.00
49567	0	0	0	0.41200E+00	14172.0	34577.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
69567	0	0	0	0.57200E+00	14172.0	34577.0	0.0	0.30	1000.00	12.92	0.30	0.00	0.00	0.00
49577	0	0	0	0.72900E+00	14761.0	37793.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49578	0	0	0	0.46100E+00	14217.0	37760.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49581	0	0	0	0.43200E+00	12410.0	37431.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49585	0	0	0	0.41200E+00	14172.0	34577.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
69585	0	0	0	0.10000E-02	14172.0	34577.0	0.0	0.30	1000.00	0.02	0.30	0.00	0.00	0.00
49607	0	0	0	0.10740E+01	13048.0	39849.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
69607	0	0	0	0.74500E+00	13048.0	39849.0	0.0	3.05	1000.00	8.60	0.30	0.00	0.00	0.00
49295	0	0	0	0.24000E+00	13345.0	37712.0	0.0	9.75	1000.00	4.89	0.30	0.00	0.00	0.00
69295	0	0	0	0.16000E-01	13345.0	37712.0	0.0	2.44	1000.00	0.32	0.30	0.00	0.00	0.00
49182	0	0	0	0.19900E+00	13181.0	34741.0	0.0	6.71	1000.00	3.73	0.30	0.00	0.00	0.00
69182	0	0	0	0.10000E-02	13181.0	34741.0	0.0	3.05	1000.00	0.01	0.30	0.00	0.00	0.00
49626	0	0	0	0.30500E+00	13345.0	37712.0	0.0	9.75	1000.00	6.20	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
69626	0	0	0	0.10000E-02	13345.0	37712.0	0.0	2.44	1000.00	0.01	0.30	0.00	0.00	0.00
49641	0	0	0	0.66100E+00	16660.0	38360.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
48422	0	0	0	0.66100E+00	15699.0	37021.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
48490	0	0	0	0.51200E+00	14778.0	34592.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48671	0	0	0	0.53500E+00	14172.0	34577.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
68671	0	0	0	0.14010E+01	14172.0	34577.0	0.0	2.44	1000.00	24.39	0.30	0.00	0.00	0.00
49743	0	0	0	0.56500E+00	14259.0	36157.0	0.0	6.71	1000.00	10.59	0.30	0.00	0.00	0.00
49215	0	0	0	0.37500E+00	13407.0	36140.0	0.0	9.75	1000.00	9.30	0.30	0.00	0.00	0.00
49756	0	0	0	0.66100E+00	15054.0	36989.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49772	0	0	0	0.20900E+00	13345.0	37712.0	0.0	9.75	1000.00	4.25	0.30	0.00	0.00	0.00
69772	0	0	0	0.11000E-01	13345.0	37712.0	0.0	2.44	1000.00	0.22	0.30	0.00	0.00	0.00
49856	0	0	0	0.65000E-01	14930.0	38562.0	0.0	6.71	1000.00	1.07	0.30	0.00	0.00	0.00
69856	0	0	0	0.70000E-02	14930.0	38562.0	0.0	3.05	1000.00	0.12	0.30	0.00	0.00	0.00
49900	0	0	0	0.66100E+00	11543.0	36041.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
49990	0	0	0	0.49600E+00	13413.0	38983.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
69990	0	0	0	0.60000E+00	13413.0	38983.0	0.0	3.05	1000.00	14.99	0.30	0.00	0.00	0.00
50178	0	0	0	0.67400E+00	12129.0	37738.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
70178	0	0	0	0.65300E+00	12129.0	37738.0	0.0	3.05	1000.00	12.02	0.30	0.00	0.00	0.00
50215	0	0	0	0.49600E+00	13892.0	38540.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
70215	0	0	0	0.20000E-02	13892.0	38540.0	0.0	3.05	1000.00	0.04	0.30	0.00	0.00	0.00
50303	0	0	0	0.66100E+00	15438.0	37770.0	0.0	6.71	1000.00	12.40	0.30	0.00	0.00	0.00
50868	0	0	0	0.12200E+00	14716.0	39438.0	0.0	6.71	1000.00	1.91	0.30	0.00	0.00	0.00
70868	0	0	0	0.59000E-01	14716.0	39438.0	0.0	3.05	1000.00	0.92	0.30	0.00	0.00	0.00
50915	0	0	0	0.25000E+00	13225.0	36298.0	0.0	9.75	1000.00	6.20	0.30	0.00	0.00	0.00
70915	0	0	0	0.24800E+00	13225.0	36298.0	0.0	2.44	1000.00	6.15	0.30	0.00	0.00	0.00
51079	0	0	0	0.73300E+00	14735.0	36199.0	0.0	6.71	1000.00	13.74	0.30	0.00	0.00	0.00
51240	0	0	0	0.10200E+00	14961.0	40231.0	0.0	6.71	1000.00	1.91	0.30	0.00	0.00	0.00
71240	0	0	0	0.70000E-02	14961.0	40231.0	0.0	3.05	1000.00	0.13	0.30	0.00	0.00	0.00
46083	0	0	0	0.50000E+00	14498.0	47976.0	0.0	4.57	1000.00	7.89	0.30	0.00	0.00	0.00
66083	0	0	0	0.49000E-01	14498.0	47976.0	0.0	0.30	1000.00	0.78	0.30	0.00	0.00	0.00
46566	0	0	0	0.53600E+00	14416.0	49551.0	0.0	4.57	1000.00	8.30	0.30	0.00	0.00	0.00
66566	0	0	0	0.13700E+00	14416.0	49551.0	0.0	0.30	1000.00	2.12	0.30	0.00	0.00	0.00
46552	0	0	0	0.40100E+00	15118.0	49353.0	0.0	4.57	1000.00	7.43	0.30	0.00	0.00	0.00
66552	0	0	0	0.58000E-01	15118.0	49353.0	0.0	0.30	1000.00	1.08	0.30	0.00	0.00	0.00
47098	0	0	0	0.70000E-01	15118.0	49353.0	0.0	4.57	1000.00	1.53	0.30	0.00	0.00	0.00
67098	0	0	0	0.12000E-01	15118.0	49353.0	0.0	0.30	1000.00	0.26	0.30	0.00	0.00	0.00
47224	0	0	0	0.15900E+00	15076.0	48551.0	0.0	6.71	1000.00	2.73	0.30	0.00	0.00	0.00
67224	0	0	0	0.43000E-01	15076.0	48551.0	0.0	3.05	1000.00	0.75	0.30	0.00	0.00	0.00
47314	0	0	0	0.45700E+00	14640.0	45103.0	0.0	4.57	1000.00	14.72	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
67314	0	0	0	0.48000E-01	14640.0	45103.0	0.0	0.30	1000.00	1.52	0.30	0.00	0.00	0.00
47705	0	0	0	0.16500E+00	16465.0	49414.0	0.0	6.71	1000.00	2.72	0.30	0.00	0.00	0.00
67705	0	0	0	0.80000E-02	16465.0	49414.0	0.0	3.05	1000.00	0.14	0.30	0.00	0.00	0.00
68340	0	0	0	0.17400E+01	14541.0	48352.0	0.0	9.14	1000.00	3.10	0.30	0.00	0.00	0.00
48811	0	0	0	0.13800E+00	15313.0	48209.0	0.0	6.71	1000.00	2.56	0.30	0.00	0.00	0.00
68811	0	0	0	0.24000E-01	15313.0	48209.0	0.0	3.05	1000.00	0.45	0.30	0.00	0.00	0.00
48854	0	0	0	0.16200E+00	15671.0	48090.0	0.0	6.71	1000.00	2.65	0.30	0.00	0.00	0.00
68854	0	0	0	0.10000E-01	15671.0	48090.0	0.0	3.05	1000.00	0.17	0.30	0.00	0.00	0.00
46403	0	0	0	0.54000E+00	14066.0	48927.0	0.0	4.57	1000.00	8.06	0.30	0.00	0.00	0.00
66403	0	0	0	0.11200E+00	14066.0	48927.0	0.0	0.30	1000.00	1.67	0.30	0.00	0.00	0.00
48162	0	0	0	0.72000E-01	14375.0	47280.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
68162	0	0	0	0.44000E-01	14375.0	47280.0	0.0	3.05	1000.00	0.77	0.30	0.00	0.00	0.00
46926	0	0	0	0.39000E-01	14416.0	49551.0	0.0	4.57	1000.00	0.38	0.30	0.00	0.00	0.00
66926	0	0	0	0.10000E-01	14416.0	49551.0	0.0	0.30	1000.00	0.10	0.30	0.00	0.00	0.00
49643	0	0	0	0.52000E-01	14066.0	48927.0	0.0	4.57	1000.00	0.62	0.30	0.00	0.00	0.00
69643	0	0	0	0.11000E-01	14066.0	48927.0	0.0	0.30	1000.00	0.13	0.30	0.00	0.00	0.00
47483	0	0	0	0.16600E+00	15790.0	48873.0	0.0	6.71	1000.00	2.73	0.30	0.00	0.00	0.00
67483	0	0	0	0.20000E-01	15790.0	48873.0	0.0	3.05	1000.00	0.33	0.30	0.00	0.00	0.00
49865	0	0	0	0.76000E-01	14588.0	46593.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
69865	0	0	0	0.80000E-01	14588.0	46593.0	0.0	3.05	1000.00	1.31	0.30	0.00	0.00	0.00
51178	0	0	0	0.52000E+00	8565.0	45607.0	0.0	4.57	1000.00	9.52	0.30	0.00	0.00	0.00
71178	0	0	0	0.12800E+00	8565.0	45607.0	0.0	0.30	1000.00	2.34	0.30	0.00	0.00	0.00
51817	0	0	0	0.42600E+00	13672.0	46337.0	0.0	8.23	1000.00	4.96	0.30	0.00	0.00	0.00
71817	0	0	0	0.31670E+01	13672.0	46337.0	0.0	3.05	1000.00	36.93	0.30	0.00	0.00	0.00
51818	0	0	0	0.76000E-01	13910.0	47246.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
71818	0	0	0	0.35000E-01	13910.0	47246.0	0.0	3.05	1000.00	0.58	0.30	0.00	0.00	0.00
51821	0	0	0	0.40700E+00	15839.0	48749.0	0.0	6.71	1000.00	3.03	0.30	0.00	0.00	0.00
52163	0	0	0	0.39800E+00	8533.0	43085.0	0.0	4.57	1000.00	8.86	0.30	0.00	0.00	0.00
72163	0	0	0	0.52740E+01	8533.0	43085.0	0.0	0.30	1000.00	117.51	0.30	0.00	0.00	0.00
48403	0	0	0	0.49100E+00	62049.0	16072.0	0.0	6.71	1000.00	4.57	0.30	0.00	0.00	0.00
49815	0	0	0	0.38000E-01	62059.0	14971.0	0.0	6.71	1000.00	0.35	0.30	0.00	0.00	0.00
46959	0	0	0	0.34700E+00	24971.0	44649.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
66959	0	0	0	0.83650E+01	24971.0	44649.0	0.0	6.10	1000.00	55.41	0.30	0.00	0.00	0.00
49410	0	0	0	0.18310E+01	47677.0	16446.0	0.0	6.71	1000.00	11.00	0.30	0.00	0.00	0.00
69410	0	0	0	0.12330E+01	47677.0	16446.0	0.0	6.10	1000.00	7.40	0.30	0.00	0.00	0.00
50146	0	0	0	0.16200E+00	48072.0	16464.0	0.0	6.71	1000.00	0.98	0.30	0.00	0.00	0.00
46589	0	0	0	0.88000E-01	18028.0	9343.0	0.0	6.71	1000.00	3.76	0.30	0.00	0.00	0.00
46602	0	0	0	0.96000E-01	20388.0	8153.0	0.0	6.71	1000.00	2.96	0.30	0.00	0.00	0.00
66602	0	0	0	0.72500E+00	20388.0	8153.0	0.0	0.30	1000.00	22.33	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
46618	0	0	0	0.43000E-01	16803.0	8027.0	0.0	6.71	1000.00	2.94	0.30	0.00	0.00	0.00
46659	0	0	0	0.50000E-02	17183.0	7277.0	0.0	6.71	1000.00	0.56	0.30	0.00	0.00	0.00
46688	0	0	0	0.57000E-01	18396.0	7755.0	0.0	6.71	1000.00	2.12	0.30	0.00	0.00	0.00
46746	0	0	0	0.20000E-01	16158.0	8007.0	0.0	6.71	1000.00	1.14	0.30	0.00	0.00	0.00
46816	0	0	0	0.80000E-02	17995.0	6540.0	0.0	6.71	1000.00	0.47	0.30	0.00	0.00	0.00
46845	0	0	0	0.63000E-01	18609.0	9960.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46918	0	0	0	0.17600E+00	17962.0	10150.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47014	0	0	0	0.10600E+00	19895.0	11816.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47092	0	0	0	0.34000E-01	19109.0	9315.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47278	0	0	0	0.77000E-01	19416.0	10940.0	0.0	6.71	1000.00	4.35	0.30	0.00	0.00	0.00
47668	0	0	0	0.10000E-01	18073.0	5880.0	0.0	6.71	1000.00	1.09	0.30	0.00	0.00	0.00
48282	0	0	0	0.27700E+00	16932.0	6656.0	0.0	6.71	1000.00	12.90	0.30	0.00	0.00	0.00
48280	0	0	0	0.30000E-01	16773.0	5977.0	0.0	6.71	1000.00	4.18	0.30	0.00	0.00	0.00
48273	0	0	0	0.19000E-01	16298.0	7271.0	0.0	6.71	1000.00	1.05	0.30	0.00	0.00	0.00
48386	0	0	0	0.21000E-01	19186.0	5962.0	0.0	6.71	1000.00	1.19	0.30	0.00	0.00	0.00
48385	0	0	0	0.19000E-01	18641.0	6678.0	0.0	6.71	1000.00	1.08	0.30	0.00	0.00	0.00
49262	0	0	0	0.96000E-01	19909.0	10516.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
49514	0	0	0	0.11200E+00	15136.0	8794.0	0.0	6.71	1000.00	10.85	0.30	0.00	0.00	0.00
46546	0	0	0	0.81000E-01	19505.0	9757.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
46551	0	0	0	0.30000E-01	18077.0	8532.0	0.0	6.71	1000.00	1.48	0.30	0.00	0.00	0.00
46619	0	0	0	0.10000E-02	15543.0	7989.0	0.0	6.71	1000.00	0.27	0.30	0.00	0.00	0.00
46658	0	0	0	0.11000E-01	17216.0	8859.0	0.0	6.71	1000.00	0.65	0.30	0.00	0.00	0.00
46689	0	0	0	0.80000E-02	18560.0	8363.0	0.0	6.71	1000.00	1.54	0.30	0.00	0.00	0.00
46701	0	0	0	0.16000E-01	17986.0	7301.0	0.0	6.71	1000.00	1.60	0.30	0.00	0.00	0.00
46919	0	0	0	0.76000E-01	18631.0	11349.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47012	0	0	0	0.57000E-01	21191.0	6938.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
67012	0	0	0	0.26000E+00	21191.0	6938.0	0.0	3.05	1000.00	16.98	0.30	0.00	0.00	0.00
47538	0	0	0	0.11000E-01	18734.0	8887.0	0.0	6.71	1000.00	0.64	0.30	0.00	0.00	0.00
48006	0	0	0	0.28000E-01	19256.0	6565.0	0.0	6.71	1000.00	1.56	0.30	0.00	0.00	0.00
48281	0	0	0	0.19000E-01	16141.0	6445.0	0.0	6.71	1000.00	1.29	0.30	0.00	0.00	0.00
48388	0	0	0	0.13000E-01	18620.0	6099.0	0.0	6.71	1000.00	0.78	0.30	0.00	0.00	0.00
50120	0	0	0	0.41000E-01	15099.0	10006.0	0.0	6.71	1000.00	2.34	0.30	0.00	0.00	0.00
50201	0	0	0	0.33000E-01	19708.0	11341.0	0.0	6.71	1000.00	1.86	0.30	0.00	0.00	0.00
47011	0	0	0	0.58800E+00	26162.0	21160.0	0.0	6.71	1000.00	12.28	0.30	0.00	0.00	0.00
47354	0	0	0	0.18500E+00	27103.0	18887.0	0.0	6.71	1000.00	5.06	0.30	0.00	0.00	0.00
67354	0	0	0	0.24000E-01	27103.0	18887.0	0.0	3.05	1000.00	0.66	0.30	0.00	0.00	0.00
47352	0	0	0	0.20700E+00	26627.0	18355.0	0.0	6.10	1000.00	7.47	0.30	0.00	0.00	0.00
47349	0	0	0	0.22200E+00	26627.0	18355.0	0.0	6.10	1000.00	8.02	0.30	0.00	0.00	0.00
47389	0	0	0	0.28600E+00	24174.0	18254.0	0.0	6.71	1000.00	7.82	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE E	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
47524	0	0	0	0.37900E+00	25514.0	14299.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
47523	0	0	0	0.27800E+00	25514.0	14299.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
47775	0	0	0	0.14000E+00	25840.0	13482.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47814	0	0	0	0.34000E+00	27135.0	15085.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
67814	0	0	0	0.23000E-01	27135.0	15085.0	0.0	3.05	1000.00	0.63	0.30	0.00	0.00	0.00
47934	0	0	0	0.70000E-02	27035.0	18032.0	0.0	6.71	1000.00	7.88	0.30	0.00	0.00	0.00
47970	0	0	0	0.39900E+00	23821.0	16234.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48116	0	0	0	0.34000E+00	24764.0	16315.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48330	0	0	0	0.16600E+00	26348.0	13569.0	0.0	6.71	1000.00	4.55	0.30	0.00	0.00	0.00
48325	0	0	0	0.39900E+00	24258.0	15909.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
48333	0	0	0	0.82000E-01	25129.0	13464.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
48554	0	0	0	0.80000E-02	25066.0	16037.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
49312	0	0	0	0.30900E+00	26674.0	18311.0	0.0	6.10	1000.00	11.15	0.30	0.00	0.00	0.00
49369	0	0	0	0.19600E+00	26627.0	18355.0	0.0	6.10	1000.00	7.08	0.30	0.00	0.00	0.00
46956	0	0	0	0.10500E+00	25017.0	18883.0	0.0	6.71	1000.00	2.86	0.30	0.00	0.00	0.00
47006	0	0	0	0.12500E+00	27008.0	19609.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47104	0	0	0	0.40500E+00	25740.0	21955.0	0.0	6.71	1000.00	11.08	0.30	0.00	0.00	0.00
47130	0	0	0	0.28600E+00	27045.0	17380.0	0.0	6.71	1000.00	8.12	0.30	0.00	0.00	0.00
47476	0	0	0	0.44000E-01	25632.0	15672.0	0.0	6.71	1000.00	0.94	0.30	0.00	0.00	0.00
47463	0	0	0	0.18700E+00	25627.0	22710.0	0.0	6.71	1000.00	4.37	0.30	0.00	0.00	0.00
47223	0	0	0	0.20600E+00	26627.0	18355.0	0.0	6.10	1000.00	7.41	0.30	0.00	0.00	0.00
47277	0	0	0	0.94000E-01	26703.0	16796.0	0.0	6.71	1000.00	2.03	0.30	0.00	0.00	0.00
67277	0	0	0	0.10000E-02	26703.0	16796.0	0.0	0.30	1000.00	0.02	0.30	0.00	0.00	0.00
47280	0	0	0	0.30900E+00	25514.0	14299.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
47283	0	0	0	0.16200E+00	26411.0	20554.0	0.0	6.71	1000.00	5.74	0.30	0.00	0.00	0.00
47350	0	0	0	0.26400E+00	26987.0	20367.0	0.0	6.71	1000.00	8.13	0.30	0.00	0.00	0.00
47353	0	0	0	0.19800E+00	26627.0	18355.0	0.0	6.10	1000.00	7.12	0.30	0.00	0.00	0.00
47432	0	0	0	0.32200E+00	25514.0	14299.0	0.0	8.23	1000.00	9.30	0.30	0.00	0.00	0.00
47499	0	0	0	0.93000E-01	27066.0	16339.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47505	0	0	0	0.34000E+00	25063.0	15902.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
47514	0	0	0	0.92000E-01	24753.0	14740.0	0.0	6.71	1000.00	2.30	0.30	0.00	0.00	0.00
67514	0	0	0	0.30000E-02	24753.0	14740.0	0.0	0.30	1000.00	0.09	0.30	0.00	0.00	0.00
47675	0	0	0	0.86000E-01	26078.0	23573.0	0.0	6.71	1000.00	0.95	0.30	0.00	0.00	0.00
47813	0	0	0	0.38400E+00	27159.0	14195.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
67813	0	0	0	0.78000E-01	27159.0	14195.0	0.0	3.05	1000.00	1.88	0.30	0.00	0.00	0.00
50106	0	0	0	0.22500E+00	26627.0	18355.0	0.0	6.10	1000.00	8.11	0.30	0.00	0.00	0.00
50877	0	0	0	0.18300E+00	24755.0	17789.0	0.0	6.71	1000.00	5.01	0.30	0.00	0.00	0.00
47284	0	0	0	0.14100E+00	25783.0	20458.0	0.0	6.71	1000.00	5.86	0.30	0.00	0.00	0.00
52124	0	0	0	0.26400E+00	26627.0	18355.0	0.0	6.10	1000.00	6.02	0.30	0.00	0.00	0.00

*** THEODORE ROOSEVELT SOUTH UNIT - SO2 - CLASS I .LT. 50 KM ***

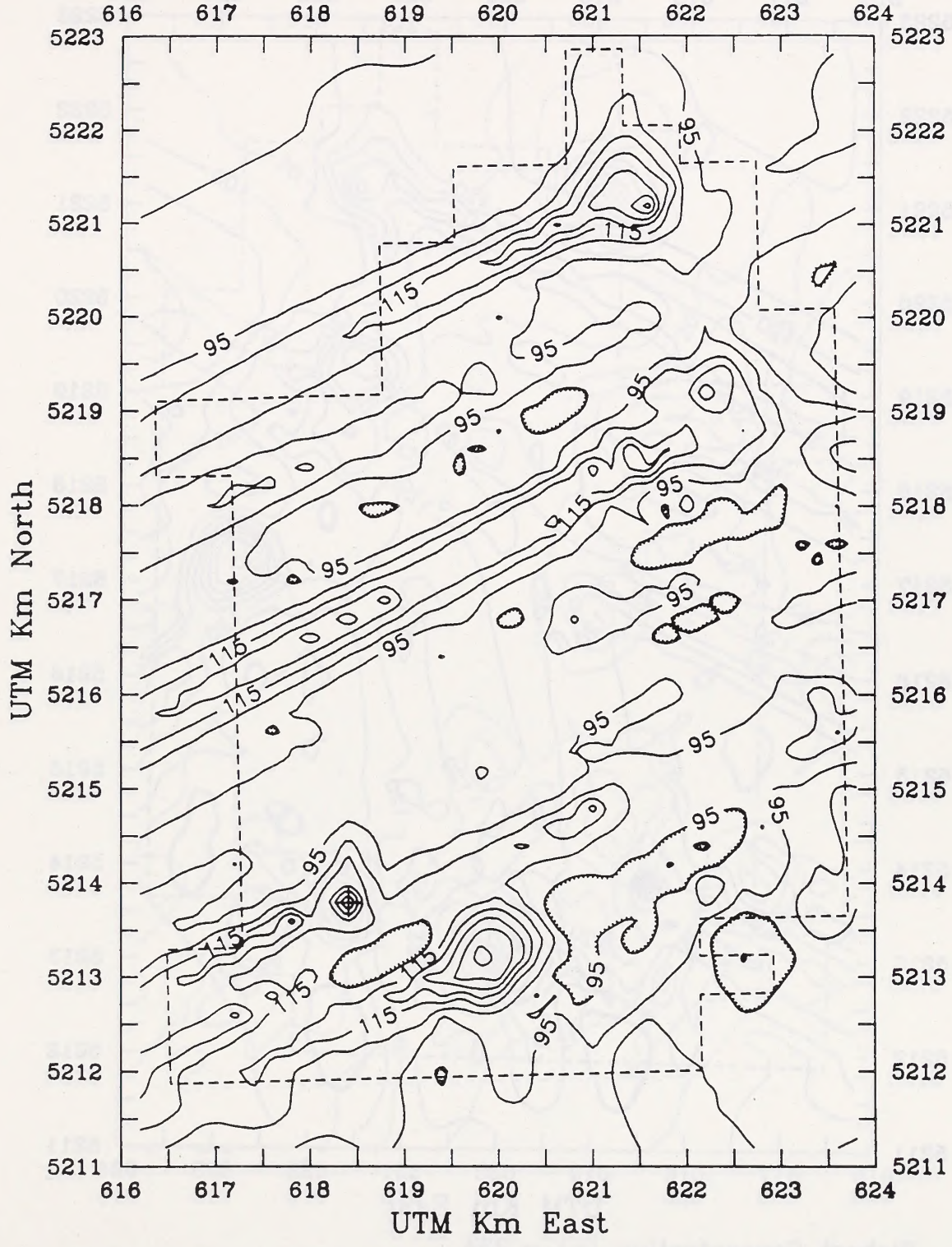
*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
47046	0	0	0	0.32000E-01	26073.0	7873.0	0.0	6.71	1000.00	3.96	0.30	0.00	0.00	0.00
47045	0	0	0	0.54000E-01	27160.0	9567.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47145	0	0	0	0.87000E-01	26749.0	10341.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47562	0	0	0	0.11900E+00	24442.0	5435.0	0.0	6.71	1000.00	7.58	0.30	0.00	0.00	0.00
48173	0	0	0	0.16000E-01	25296.0	5289.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
48214	0	0	0	0.30000E-01	26444.0	6785.0	0.0	6.71	1000.00	3.82	0.30	0.00	0.00	0.00
48437	0	0	0	0.33000E-01	25158.0	6247.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
48827	0	0	0	0.12000E-01	25962.0	6625.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
49389	0	0	0	0.40000E-02	26162.0	4679.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
49609	0	0	0	0.49000E-01	26399.0	10722.0	0.0	6.71	1000.00	3.10	0.30	0.00	0.00	0.00
48948	0	0	0	0.53000E-01	25267.0	4683.0	0.0	3.66	1000.00	10.69	0.30	0.00	0.00	0.00
46899	0	0	0	0.49000E-01	26819.0	8706.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47120	0	0	0	0.12900E+00	25246.0	9424.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
49646	0	0	0	0.50000E-02	25993.0	6117.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
47438	0	0	0	0.25000E-01	25286.0	7108.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47459	0	0	0	0.76000E-01	26064.0	8393.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
47776	0	0	0	0.18400E+00	26789.0	12284.0	0.0	6.71	1000.00	3.42	0.30	0.00	0.00	0.00
48432	0	0	0	0.61000E-01	25923.0	9288.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48958	0	0	0	0.59000E-01	24555.0	4674.0	0.0	6.71	1000.00	3.72	0.30	0.00	0.00	0.00
50191	0	0	0	0.30000E-02	25177.0	3829.0	0.0	7.62	1000.00	0.49	0.30	0.00	0.00	0.00
50267	0	0	0	0.22000E-01	25199.0	1939.0	0.0	7.62	1000.00	2.57	0.30	0.00	0.00	0.00
50306	0	0	0	0.14600E+00	26497.0	7539.0	0.0	6.71	1000.00	9.30	0.30	0.00	0.00	0.00
50516	0	0	0	0.80000E-02	24695.0	1818.0	0.0	7.62	1000.00	0.53	0.30	0.00	0.00	0.00
70516	0	0	0	0.68000E-01	24695.0	1818.0	0.0	0.91	1000.00	4.33	0.30	0.00	0.00	0.00
50585	0	0	0	0.11000E-01	24309.0	2645.0	0.0	7.62	1000.00	2.05	0.30	0.00	0.00	0.00
50843	0	0	0	0.50000E-02	25209.0	3049.0	0.0	7.62	1000.00	0.86	0.30	0.00	0.00	0.00
51581	0	0	0	0.58000E-01	26575.0	11664.0	0.0	6.71	1000.00	2.48	0.30	0.00	0.00	0.00
51944	0	0	0	0.50000E-02	25273.0	7611.0	0.0	6.71	1000.00	4.96	0.30	0.00	0.00	0.00
48649	0	0	0	0.80000E-02	41716.0	-4977.0	0.0	6.71	1000.00	1.88	0.30	0.00	0.00	0.00
49194	0	0	0	0.10000E-02	42965.0	-4890.0	0.0	6.71	1000.00	0.28	0.30	0.00	0.00	0.00
49869	0	0	0	0.16000E-01	39843.0	-5279.0	0.0	6.71	1000.00	3.75	0.30	0.00	0.00	0.00
49917	0	0	0	0.21000E-01	40223.0	-6967.0	0.0	6.71	1000.00	1.24	0.30	0.00	0.00	0.00
50119	0	0	0	0.10000E-01	39713.0	-5724.0	0.0	6.71	1000.00	2.39	0.30	0.00	0.00	0.00

APPENDIX C

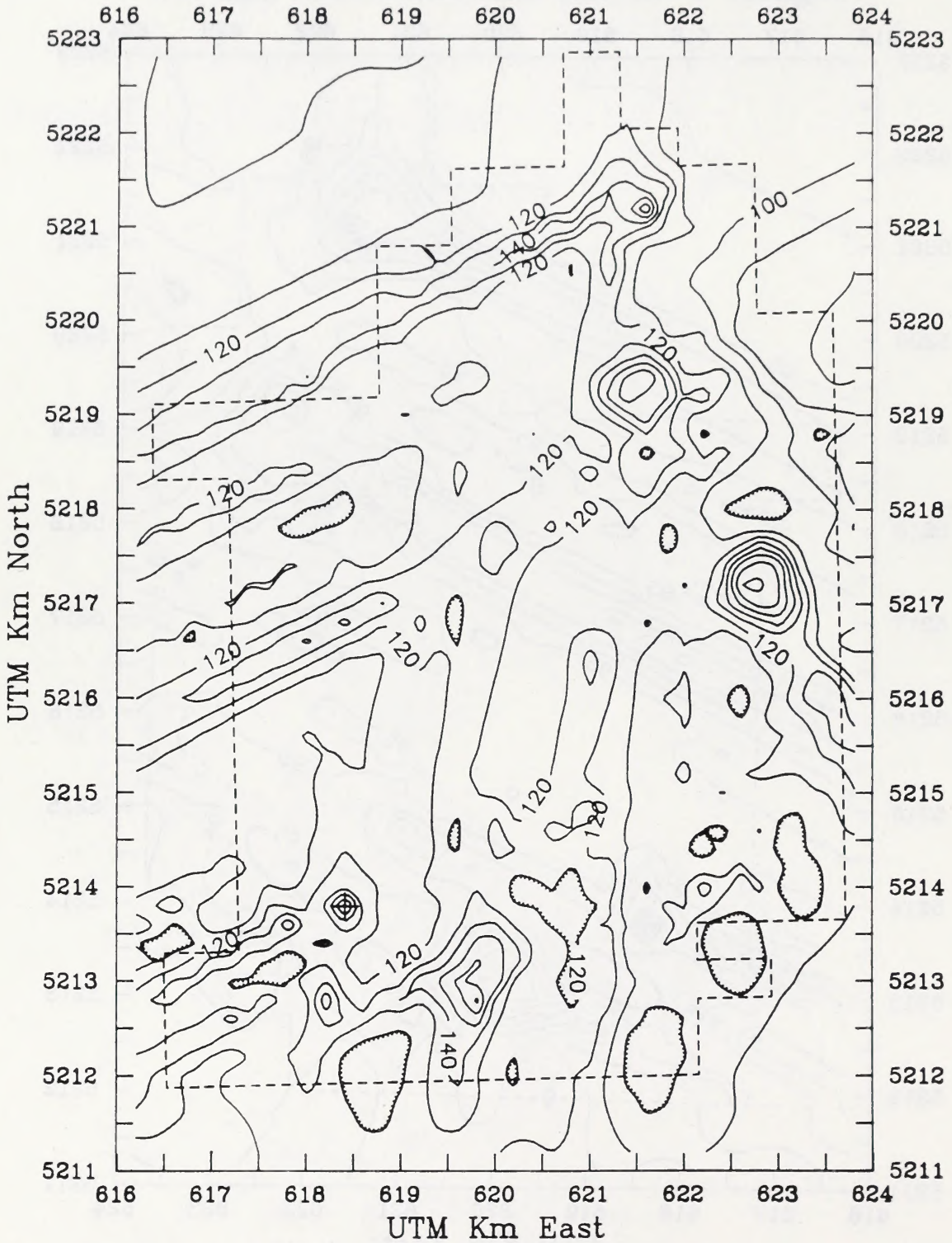
Contour Plots of Ambient and PSD Class II SO_2 Scenario Modeling Results for Each Study Field

Figure C-1
Big Stick Field - Existing Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



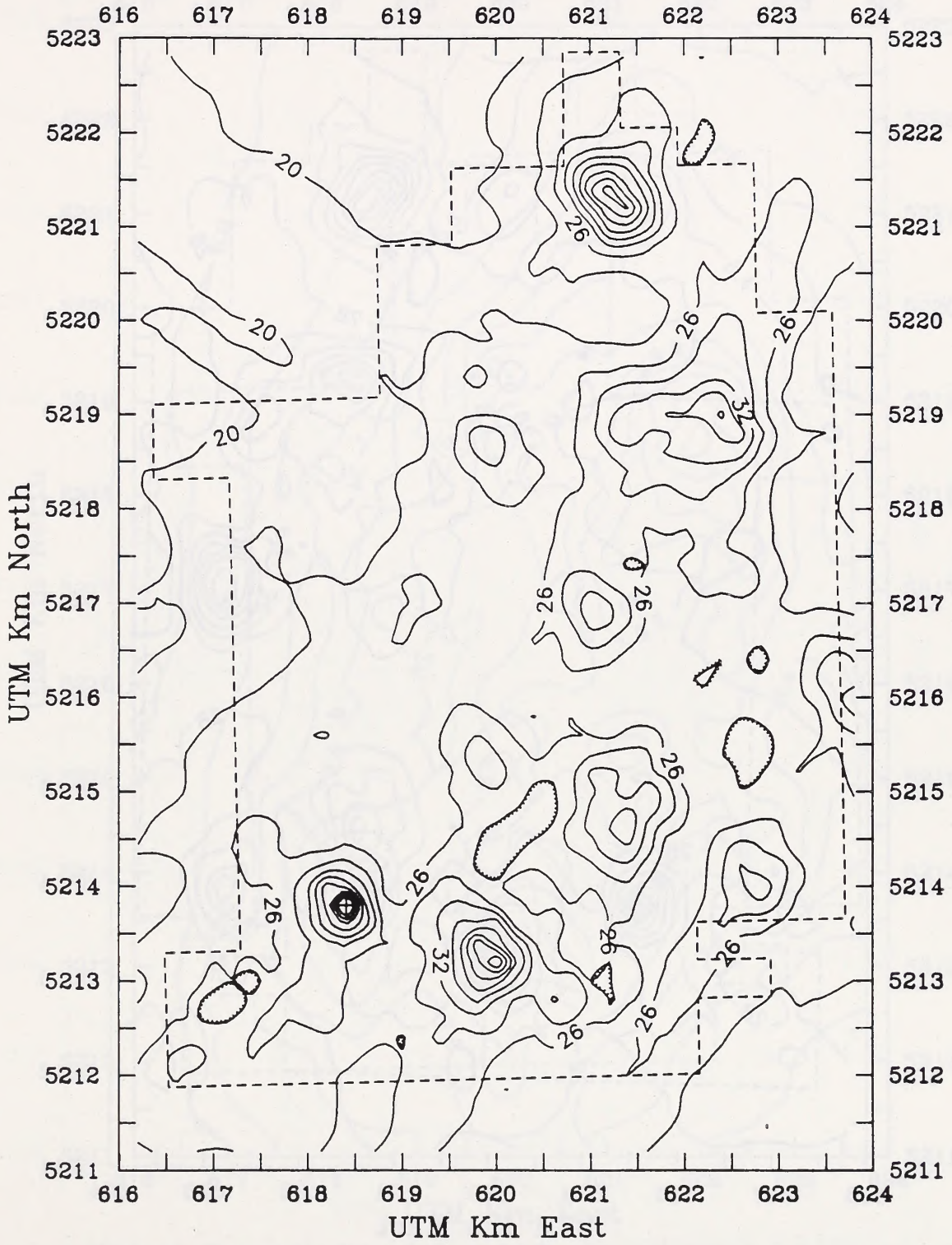
Highest Concentration (+) = 231
Ambient Air Quality Standard = 715 Contour Interval = 10

Figure C–2
Big Stick Field – Future Ambient Scenario
Highest 1–hr SO_2 Concentrations ($\mu g/m^3$)



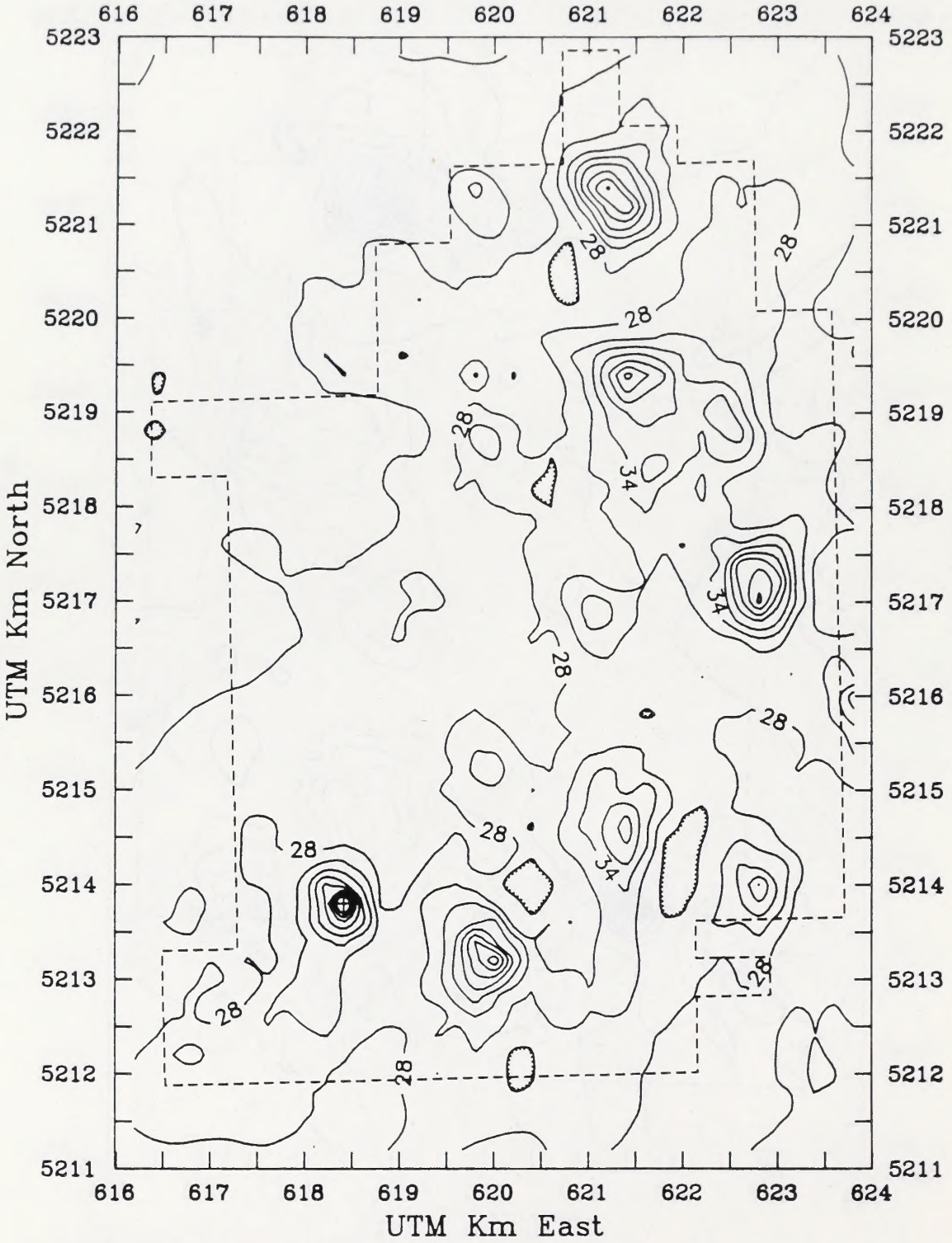
Highest Concentration (+) = 234
Ambient Air Quality Standard = 715 Contour Interval = 10

Figure C-3
Big Stick Field – Existing Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



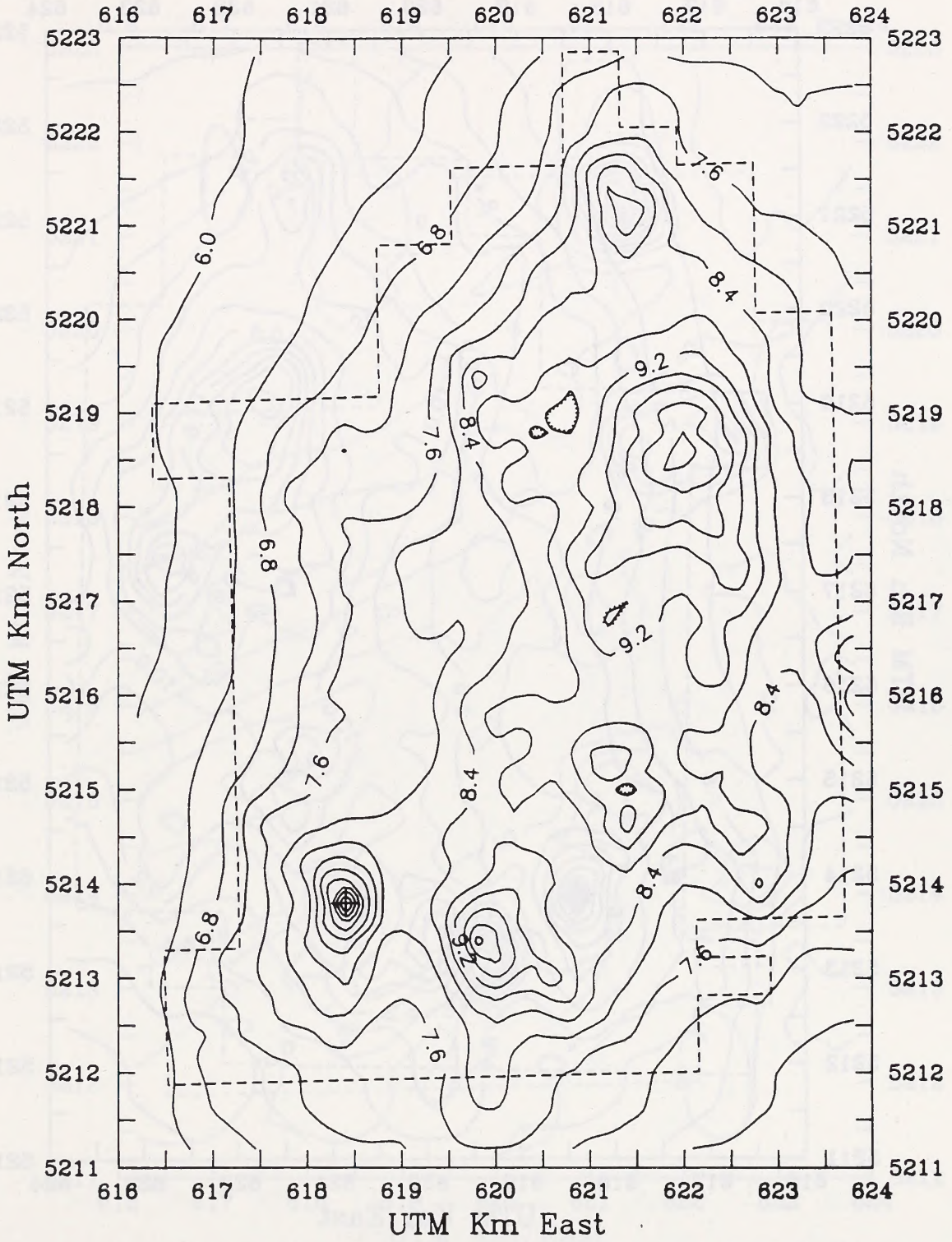
Highest Concentration (+) = 87
Ambient Air Quality Standard = 260 Contour Interval = 3

Figure C–4
Big Stick Field – Future Ambient Scenario
Highest 24–hr SO_2 Concentrations ($\mu g/m^3$)



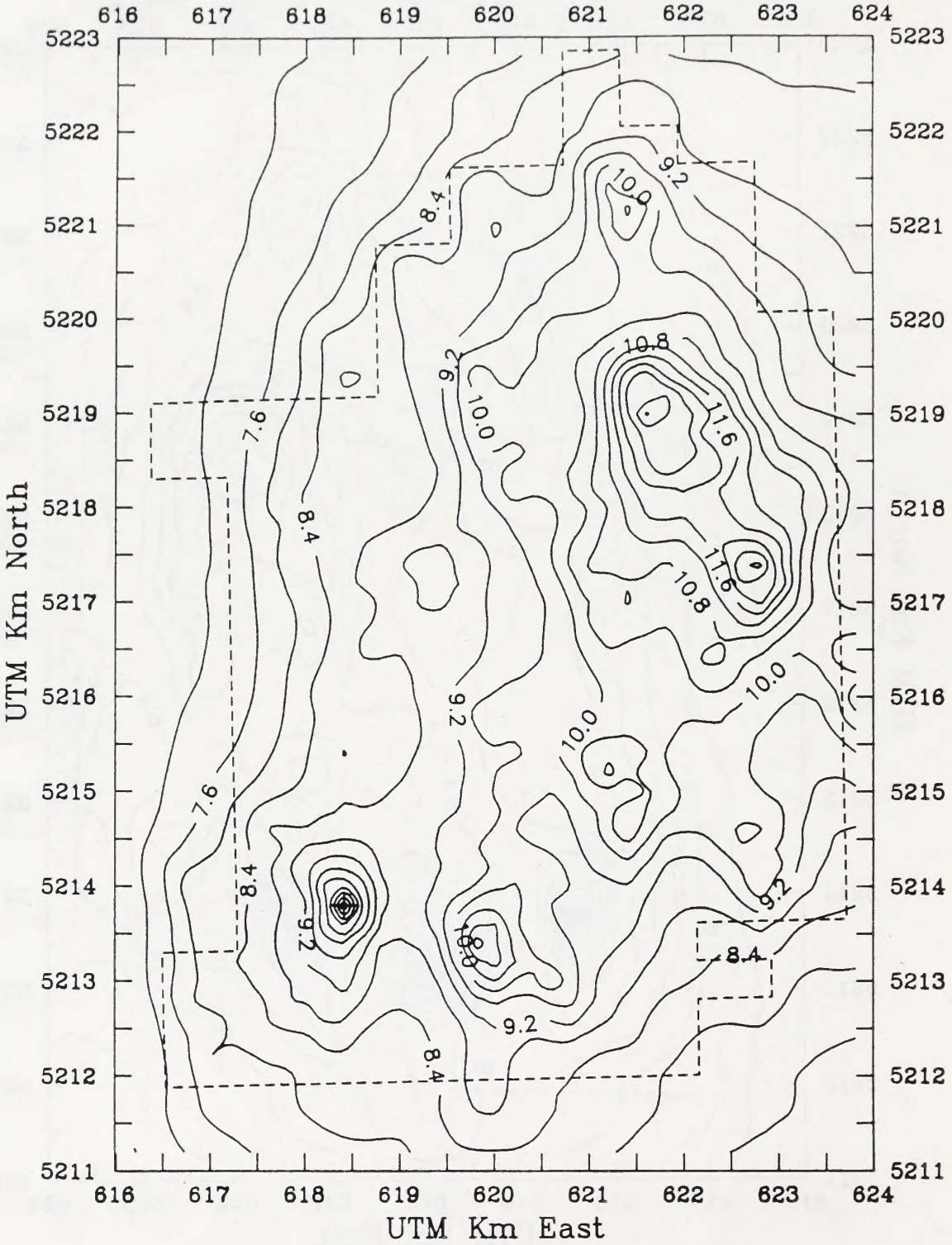
Highest Concentration (+) = 89
Ambient Air Quality Standard = 260 Contour Interval = 3

Figure C-5
Big Stick Field - Existing Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



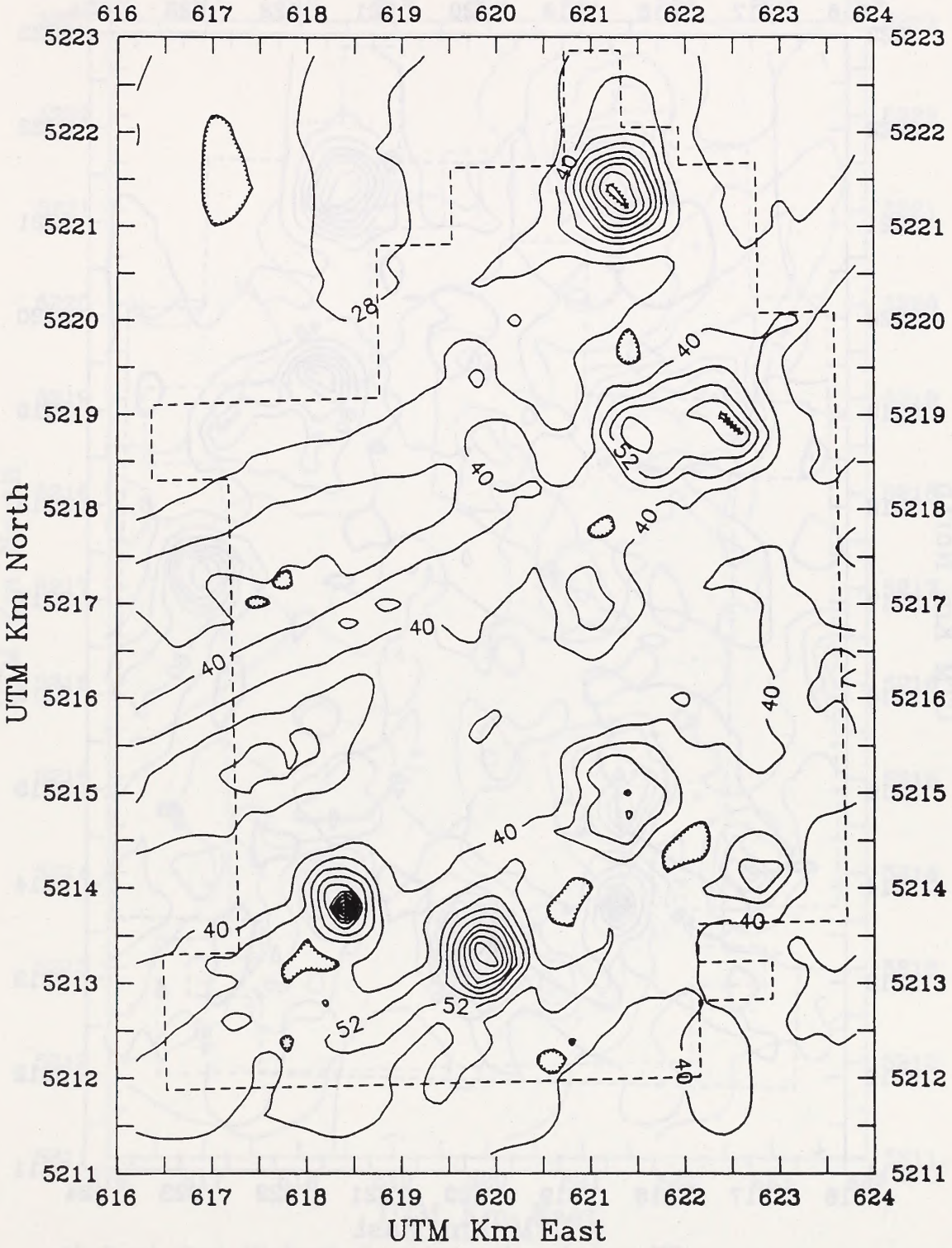
Highest Concentration (+) = 14.9
Ambient Air Quality Standard = 60 Contour Interval = 0.4

Figure C-6
Big Stick Field - Future Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



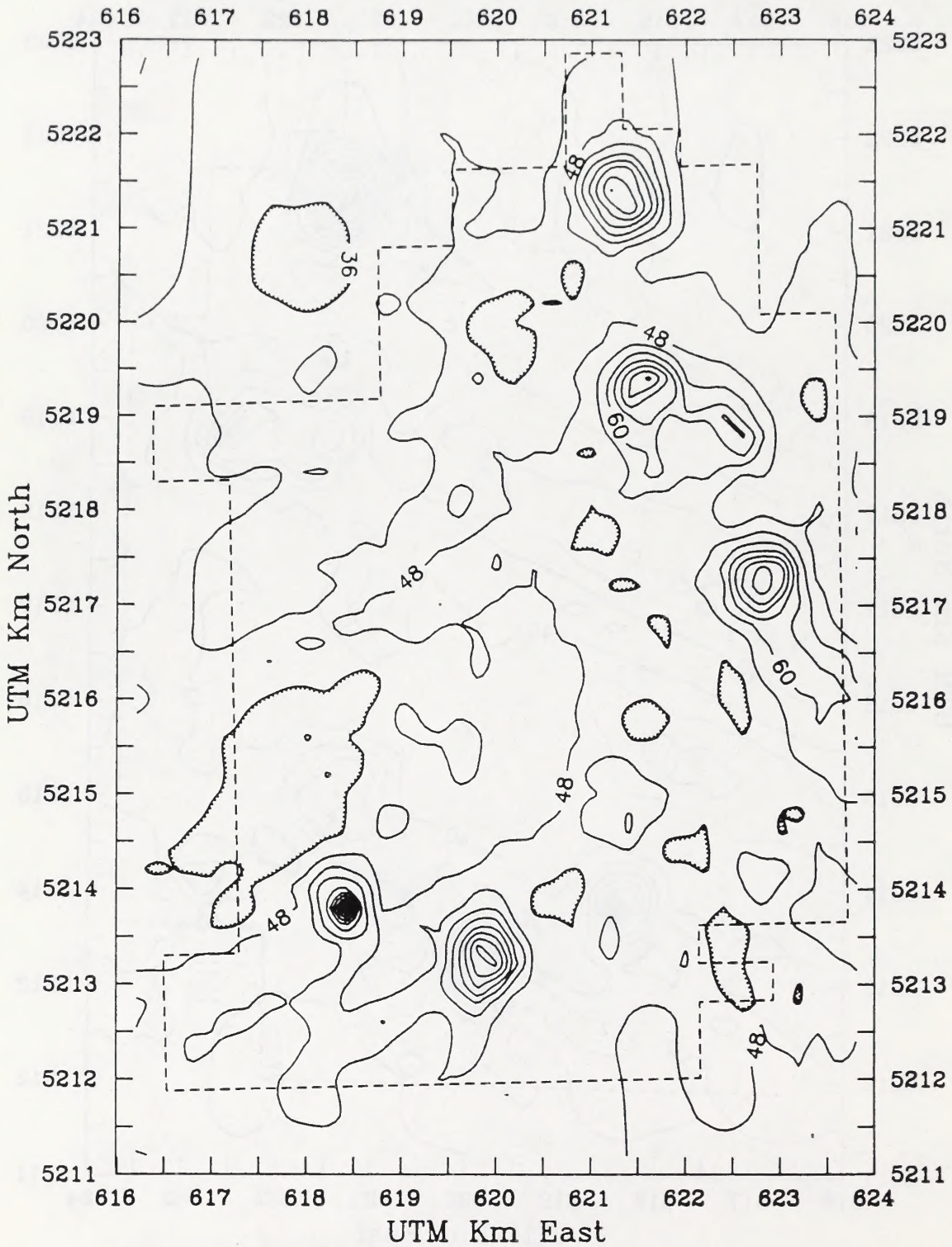
Highest Concentration (+) = 15.8
Ambient Air Quality Standard = 60 Contour Interval = 0.4

Figure C-7
Big Stick Field – Existing PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



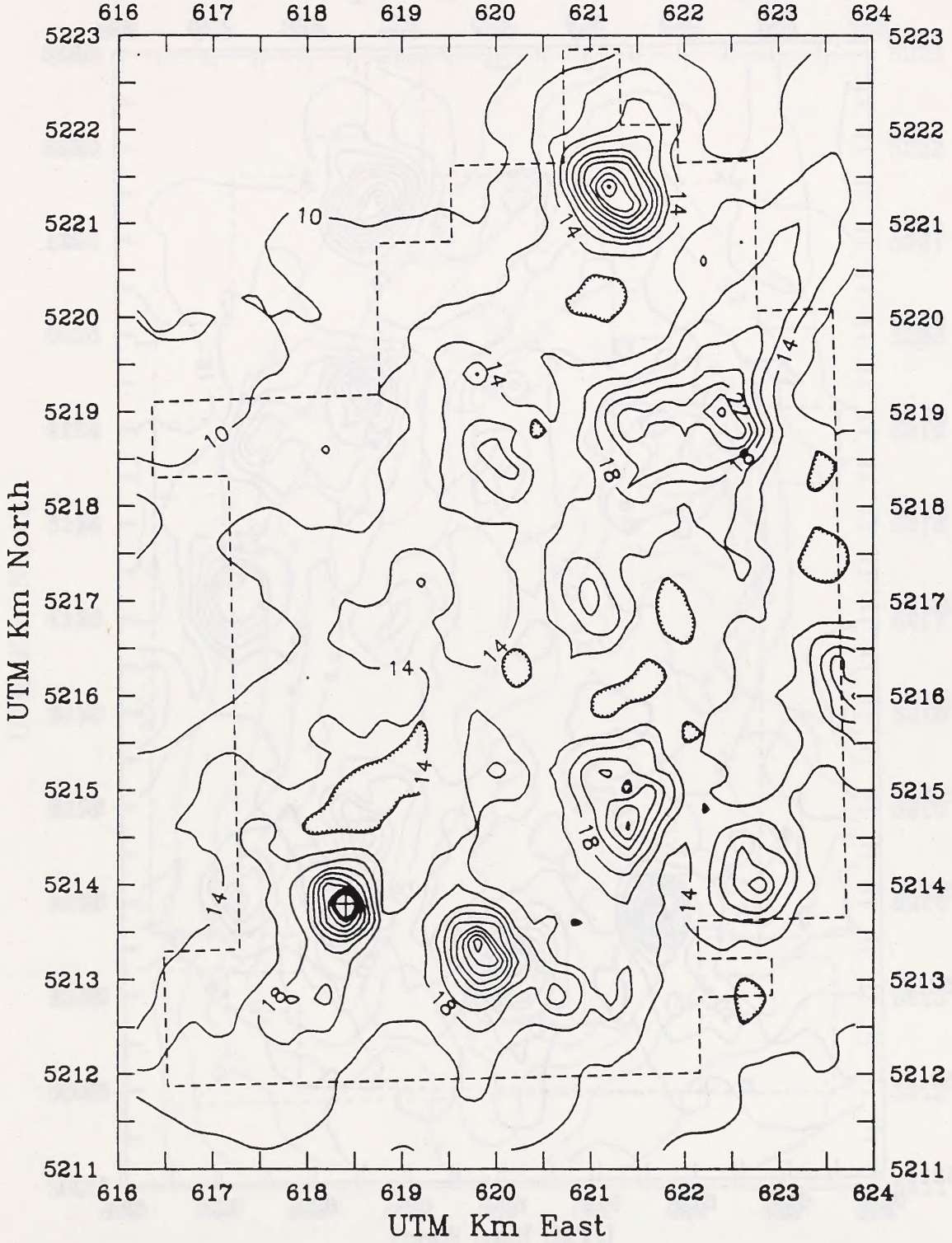
Highest 2nd Highest Concentration (+) = 162
PSD Class II Increment = 512 Contour Interval = 6

Figure C-8
Big Stick Field - Future PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



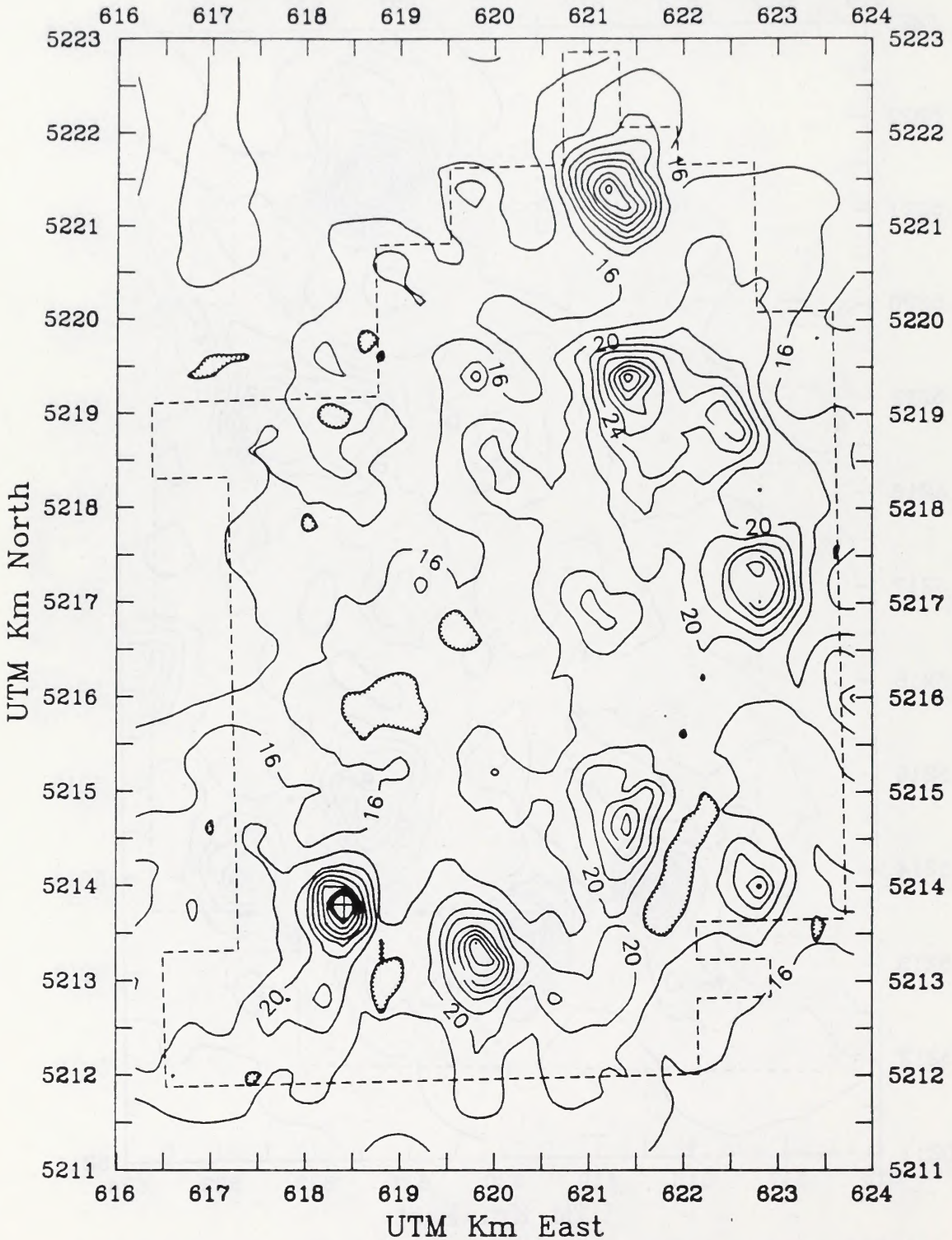
Highest 2nd Highest Concentration (+) = 164
PSD Class II Increment = 512 Contour Interval = 6

Figure C-9
Big Stick Field - Existing PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



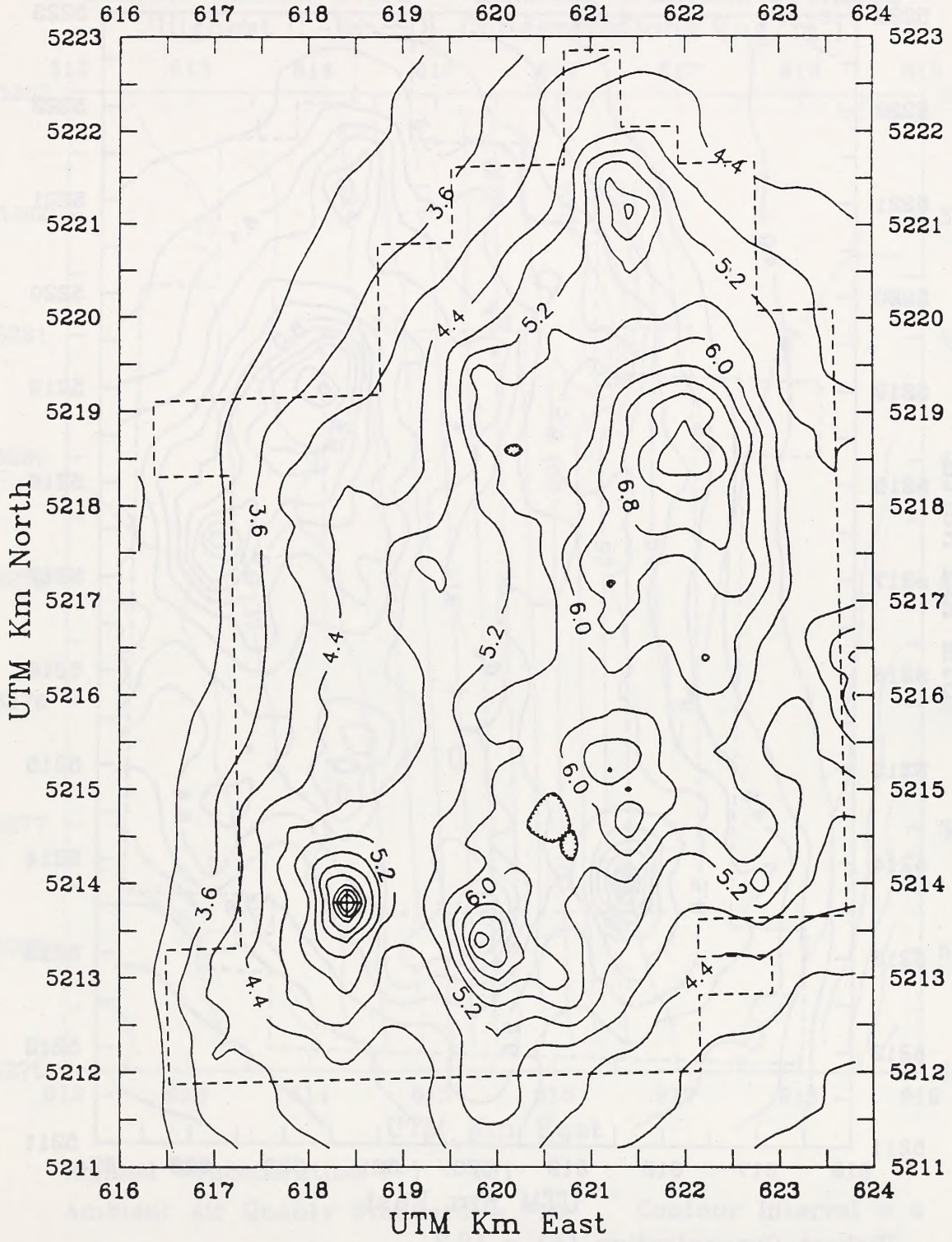
Highest 2nd Highest Concentration (+) = 72
PSD Class II Increment = 91 Contour Interval = 2

Figure C-10
Big Stick Field - Future PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



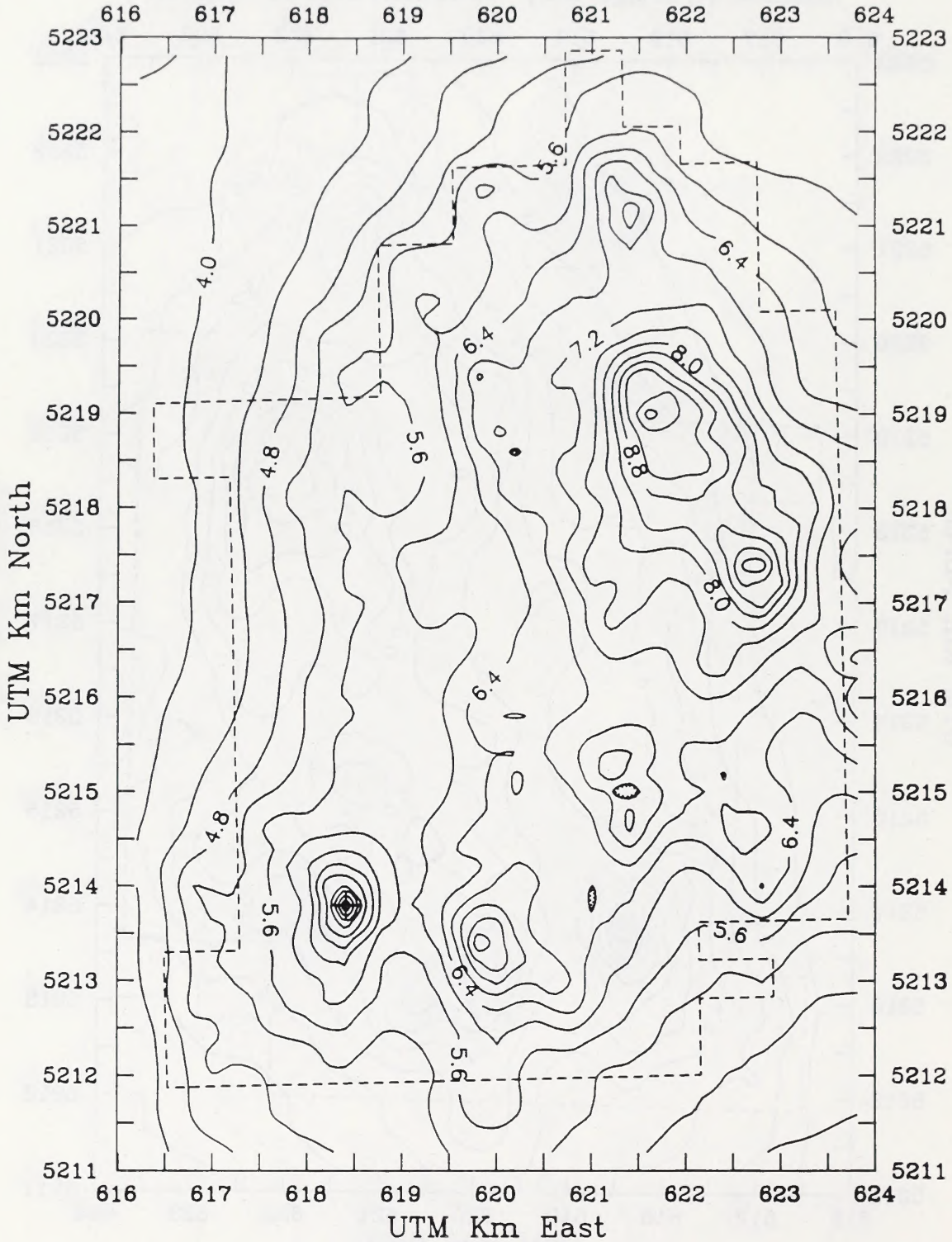
Highest 2nd Highest Concentration (+) = 75
PSD Class II Increment = 91 Contour Interval = 2

Figure C-11
Big Stick Field – Existing PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



Highest Concentration (+) = 11.8
PSD Class II Increment = 15 Contour Interval = 0.4

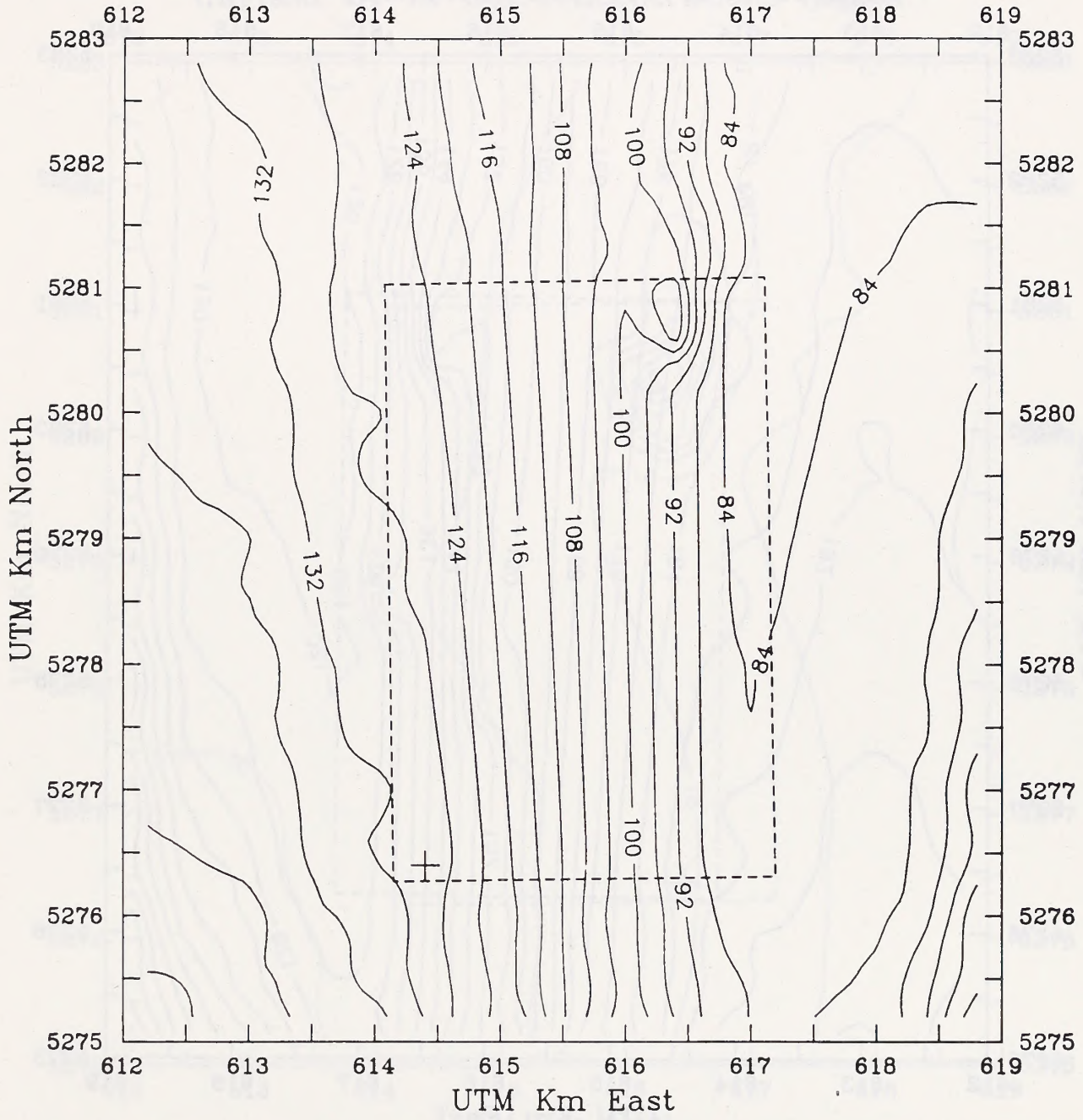
Figure C-12
Big Stick Field - Future PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



Highest Concentration (+) = 12.7

PSD Class II Increment = 15 Contour Interval = 0.4

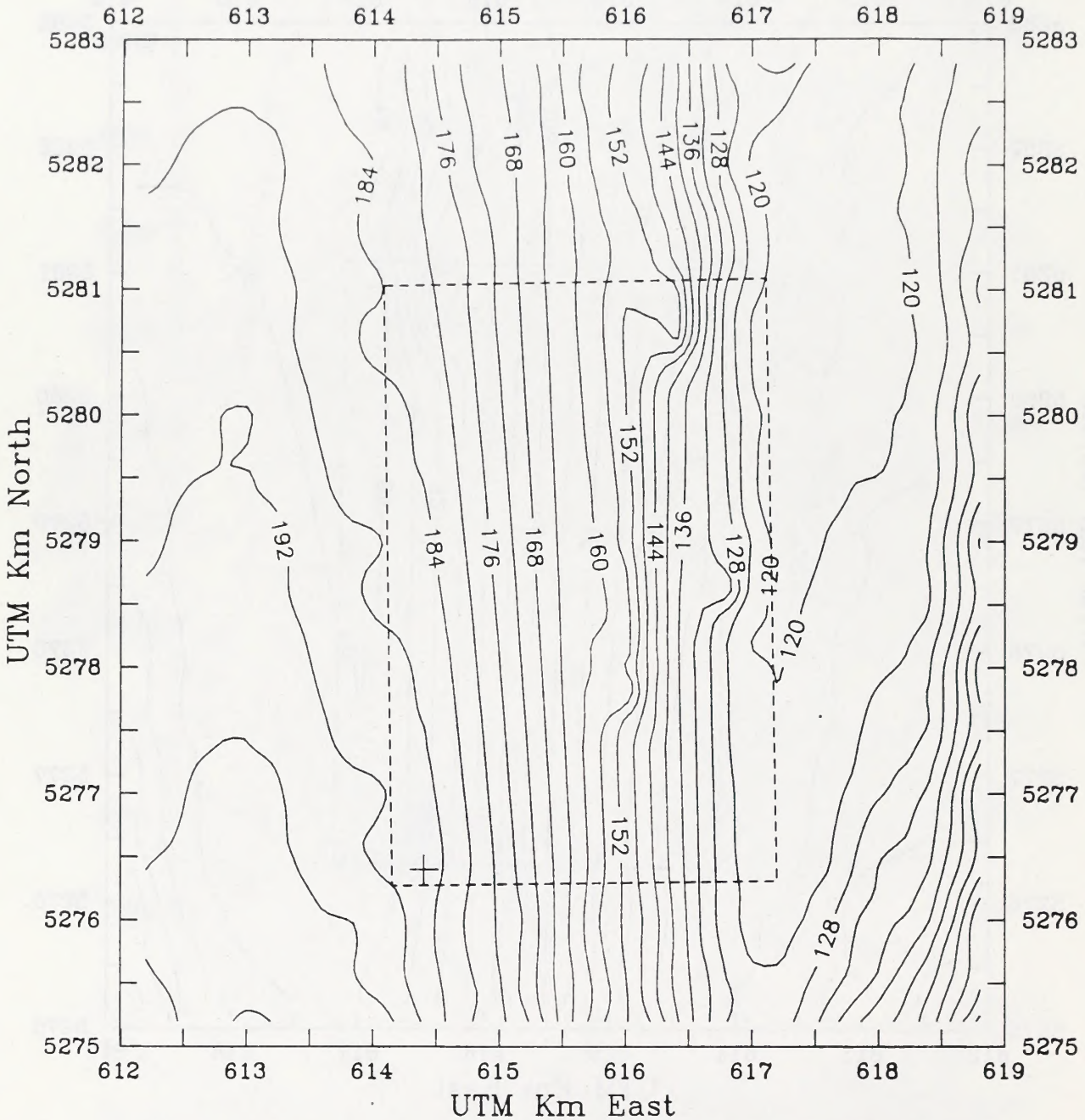
Figure C-13
Buffalo Wallow Field - Existing Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



Highest Concentration (+) = 131

Ambient Air Quality Standard = 715 Contour Interval = 4

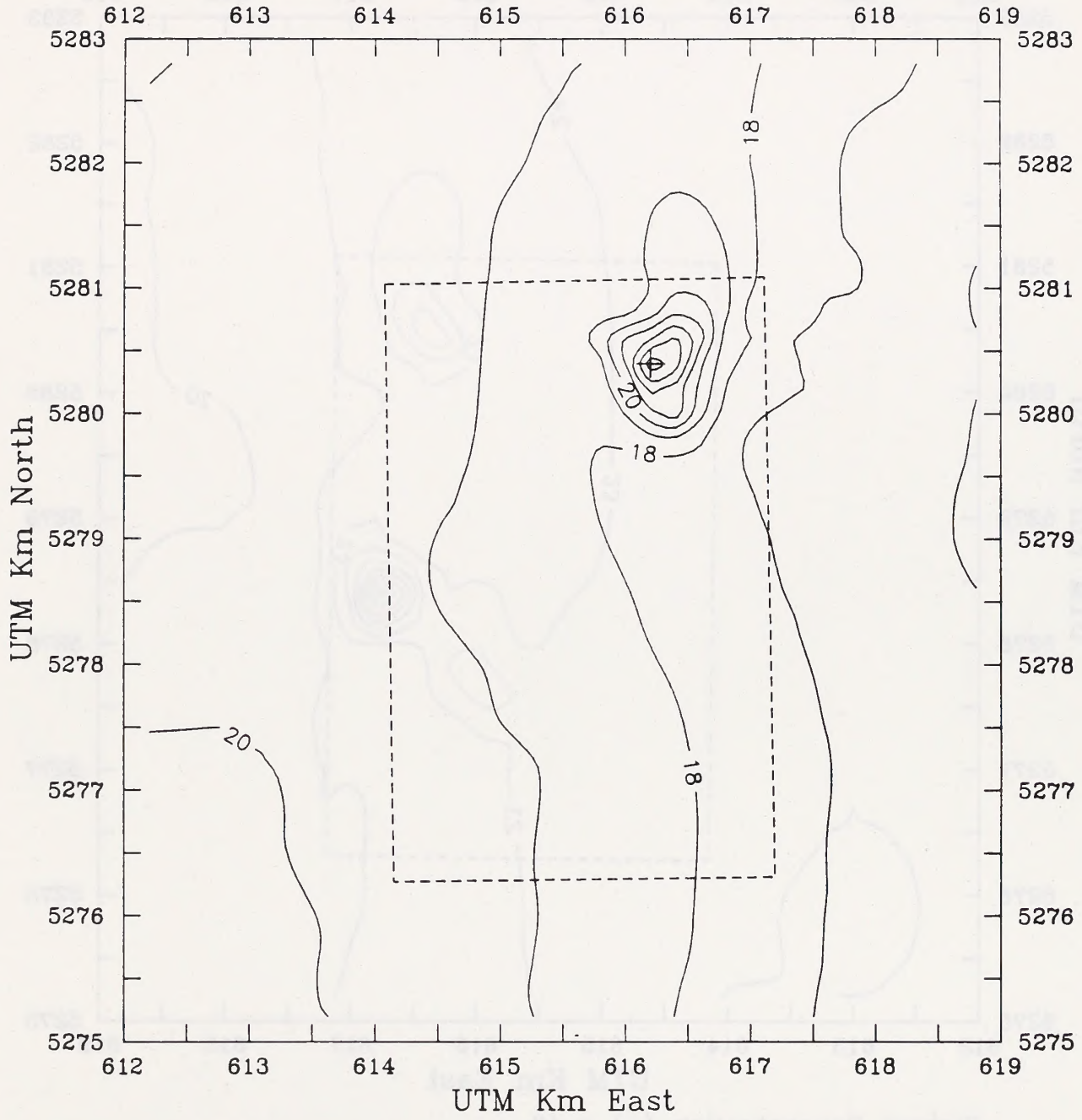
Figure C-14
Buffalo Wallow Field - Future Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



Highest Concentration (+) = 191

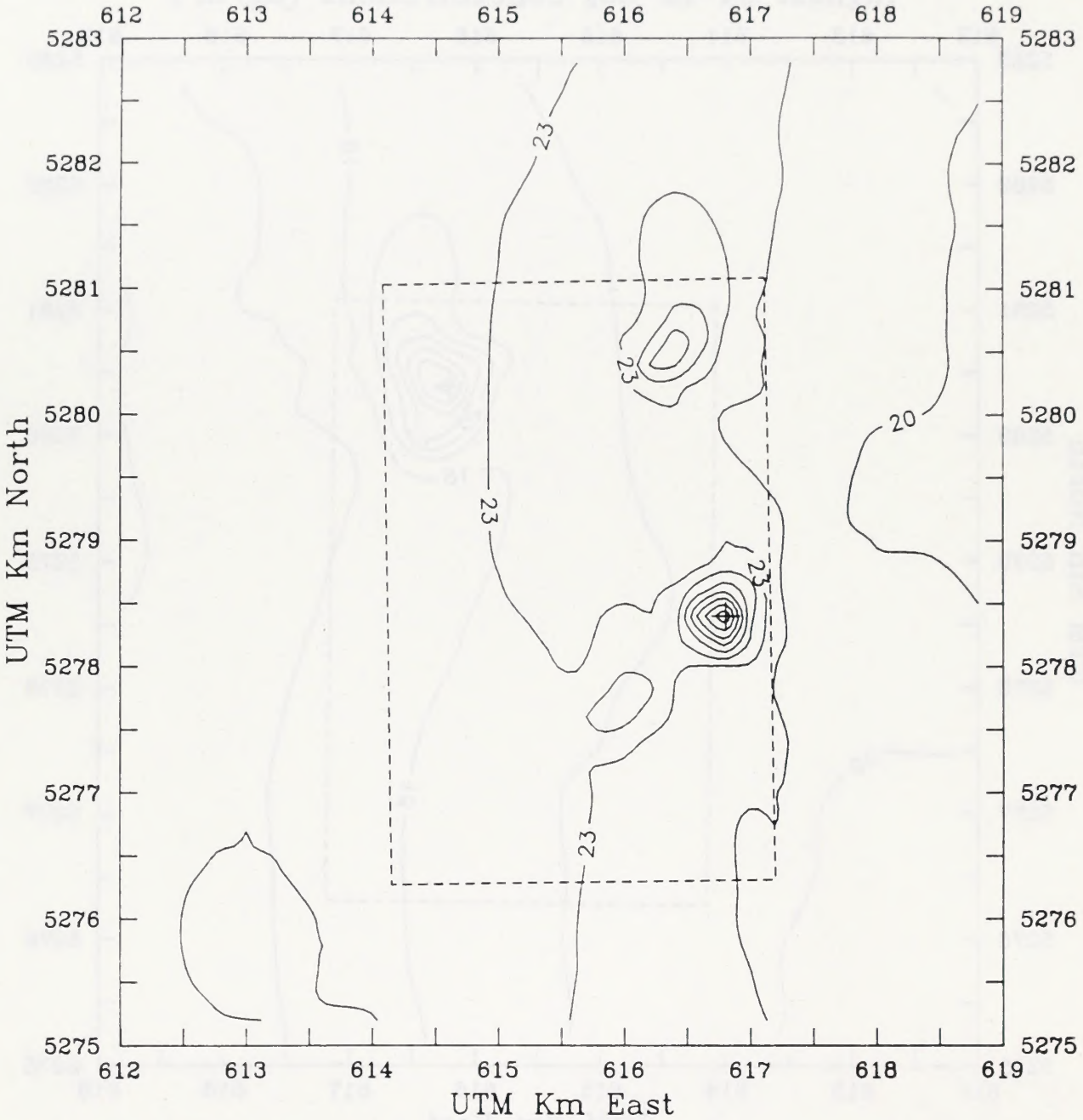
Ambient Air Quality Standard = 715 Contour Interval = 4

Figure C-15
Buffalo Wallow Field - Existing Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



Highest Concentration (+) = 29
Ambient Air Quality Standard = 260 Contour Interval = 1

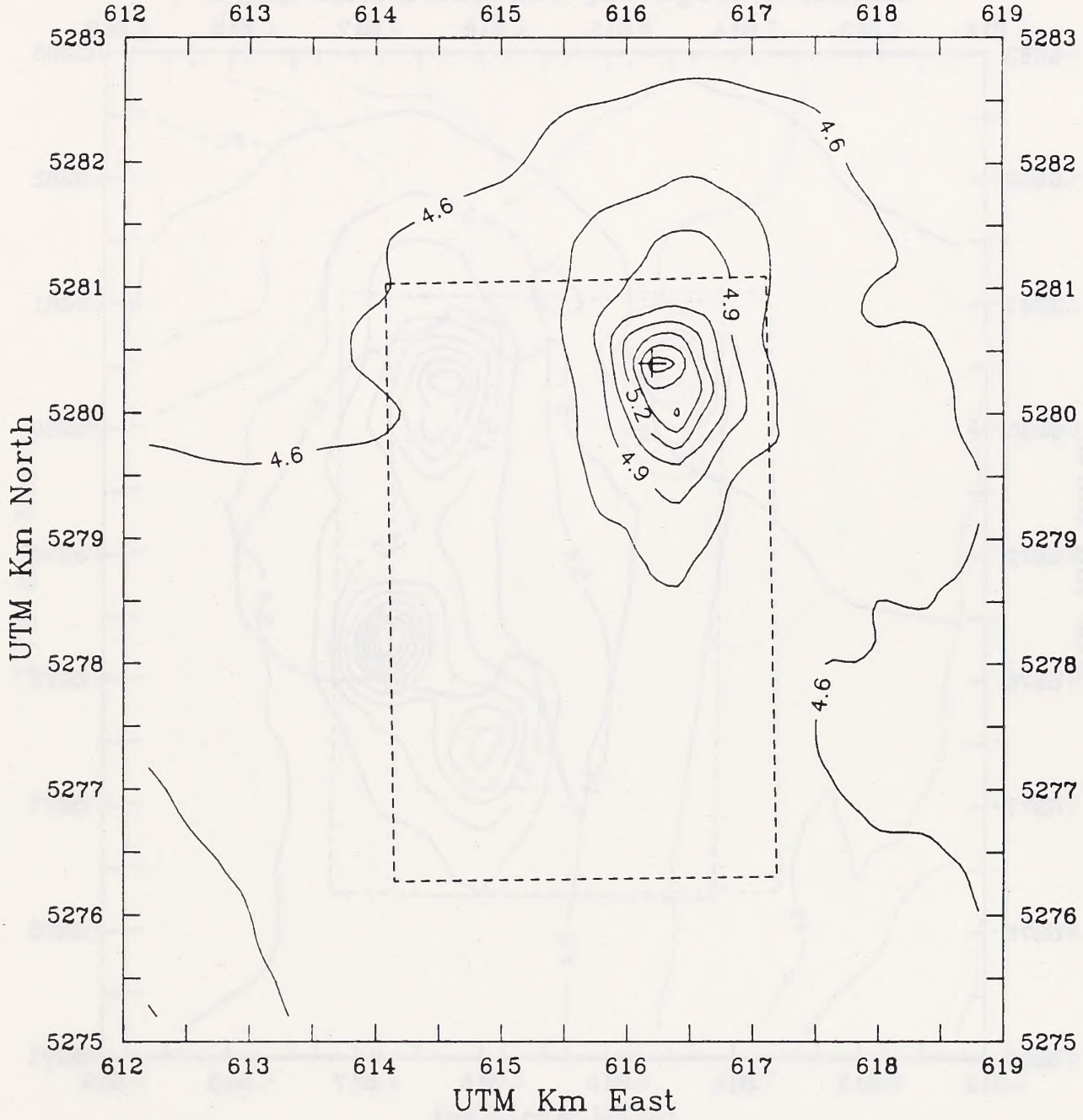
Figure C-16
Buffalo Wallow Field - Future Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



Highest Concentration (+) = 46

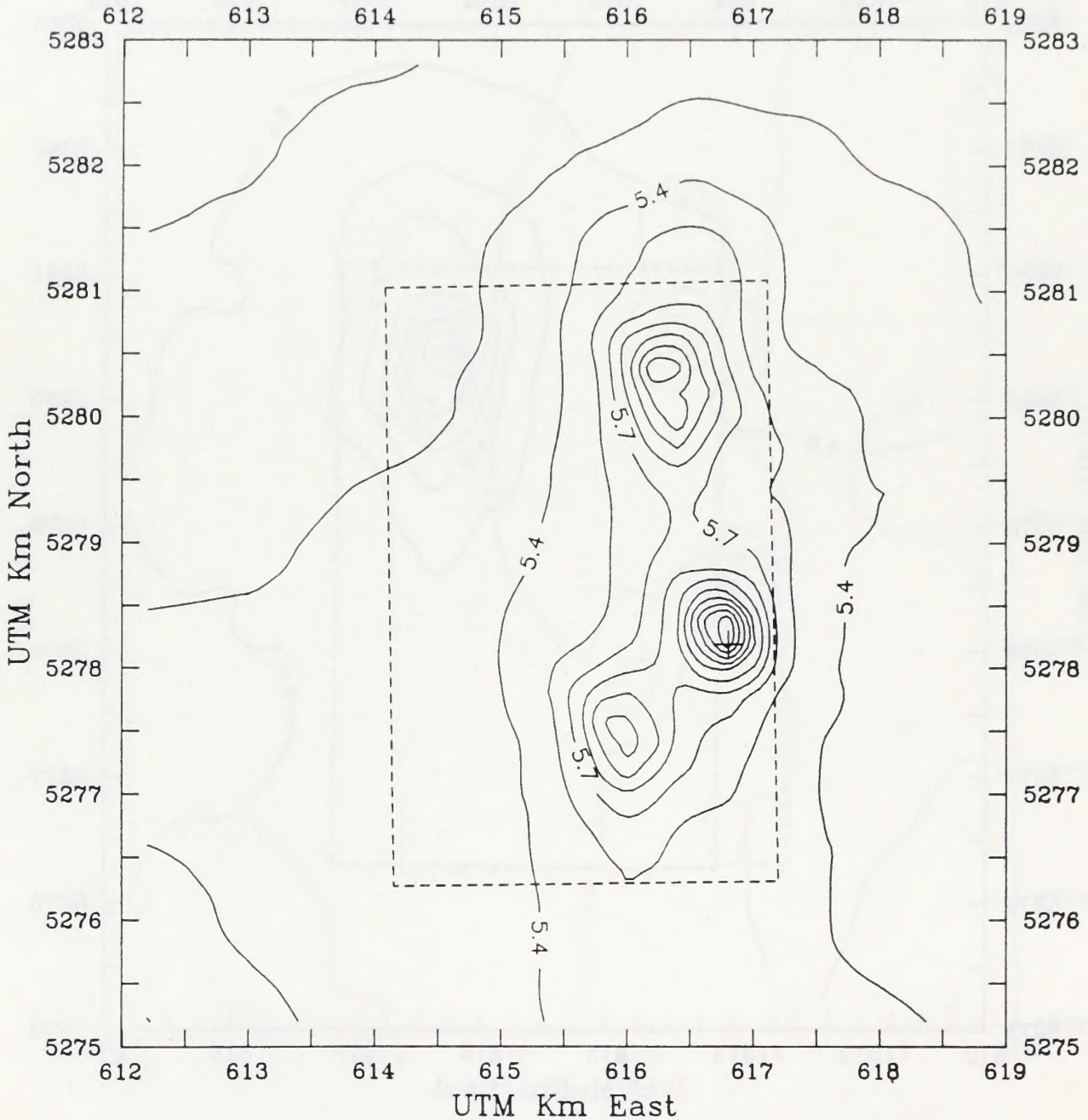
Ambient Air Quality Standard = 260 Contour Interval = 1.5

Figure C-17
Buffalo Wallow Field - Existing Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



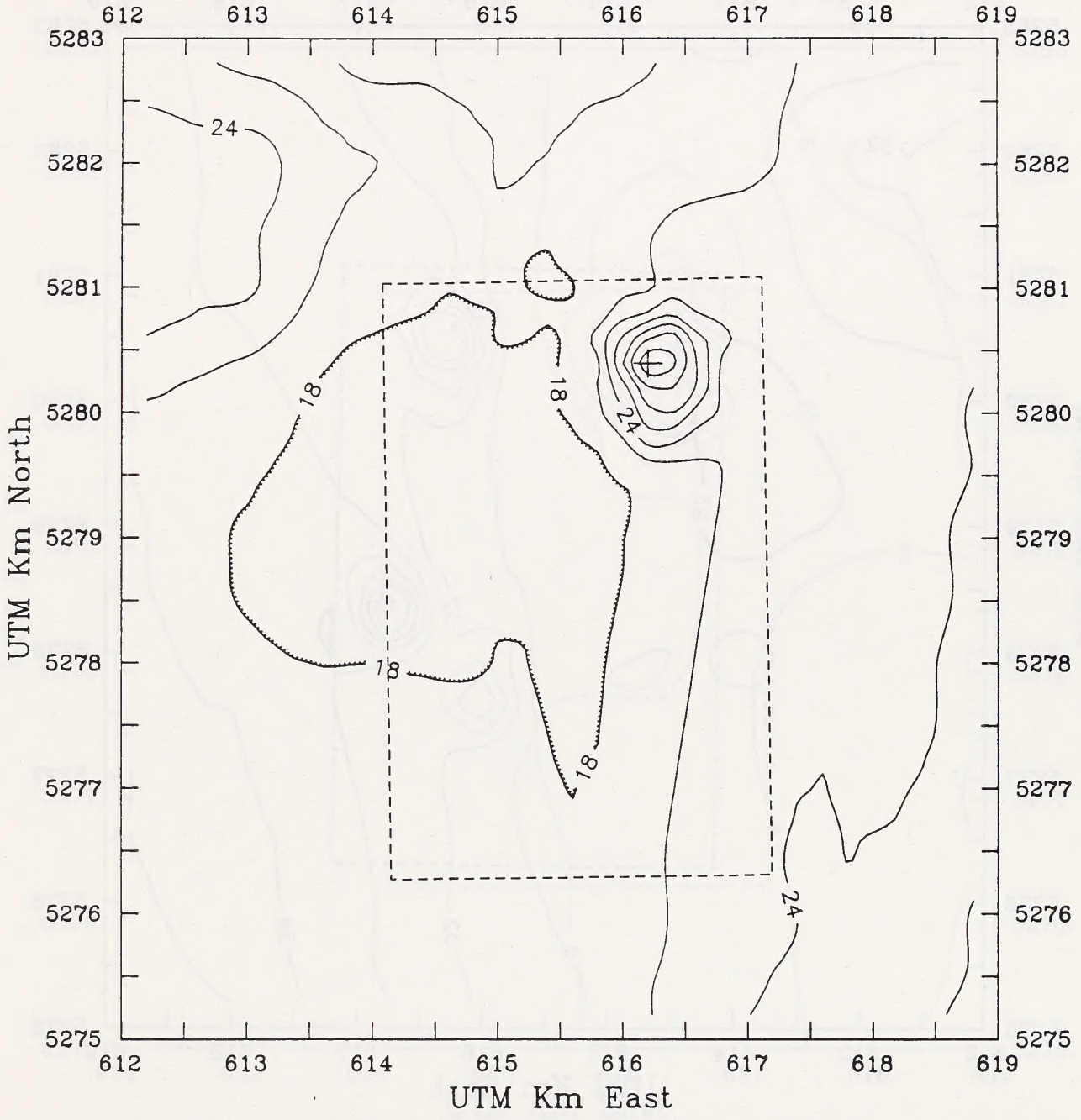
Highest Concentration (+) = 6.3
Ambient Air Quality Standard = 60 Contour Interval = 0.15

Figure C-18
Buffalo Wallow Field – Future Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



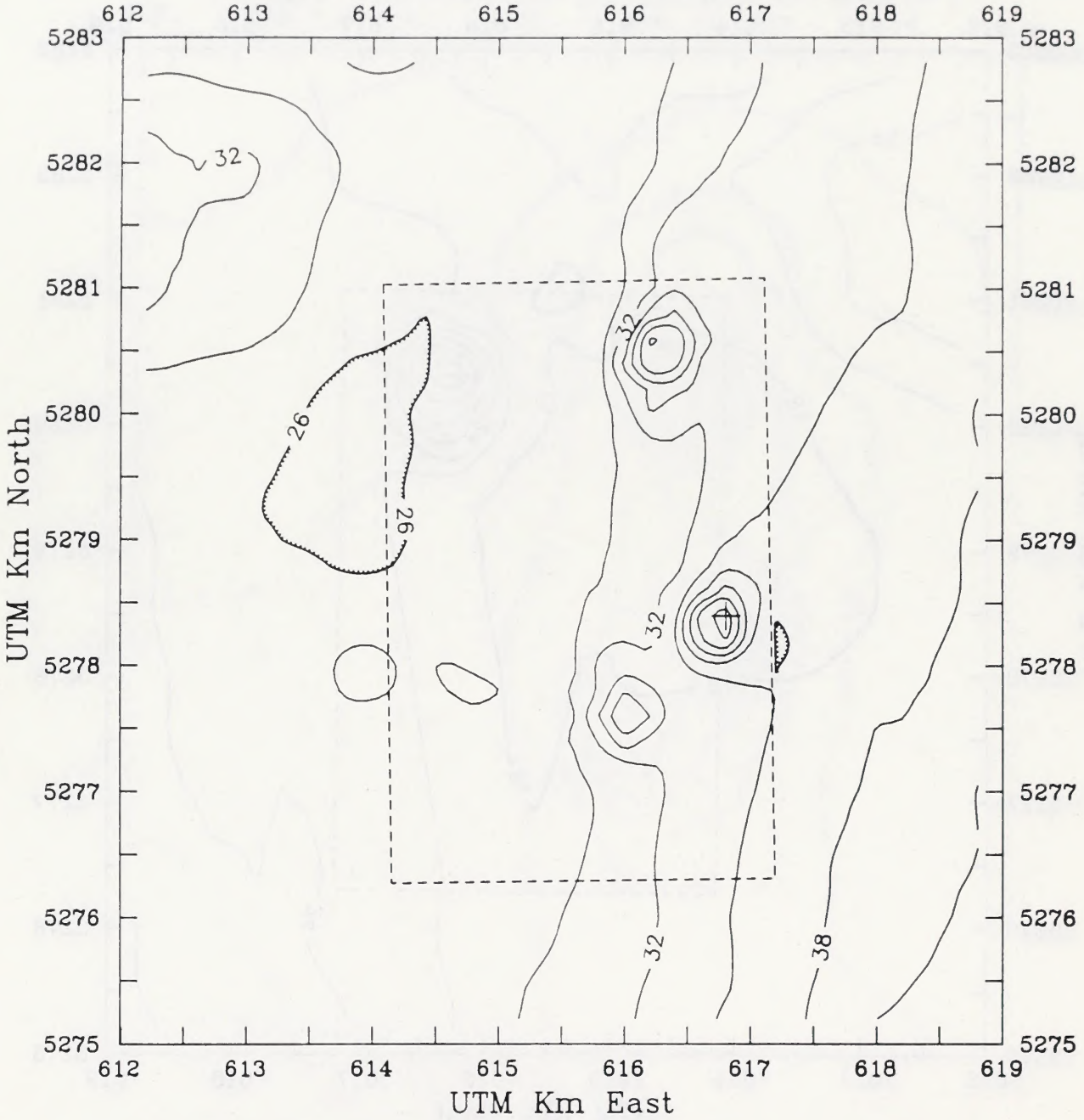
Highest Concentration (+) = 7.6
Ambient Air Quality Standard = 60 Contour Interval = 0.15

Figure C-19
Buffalo Wallow Field - Existing PSD Class II Scen.
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



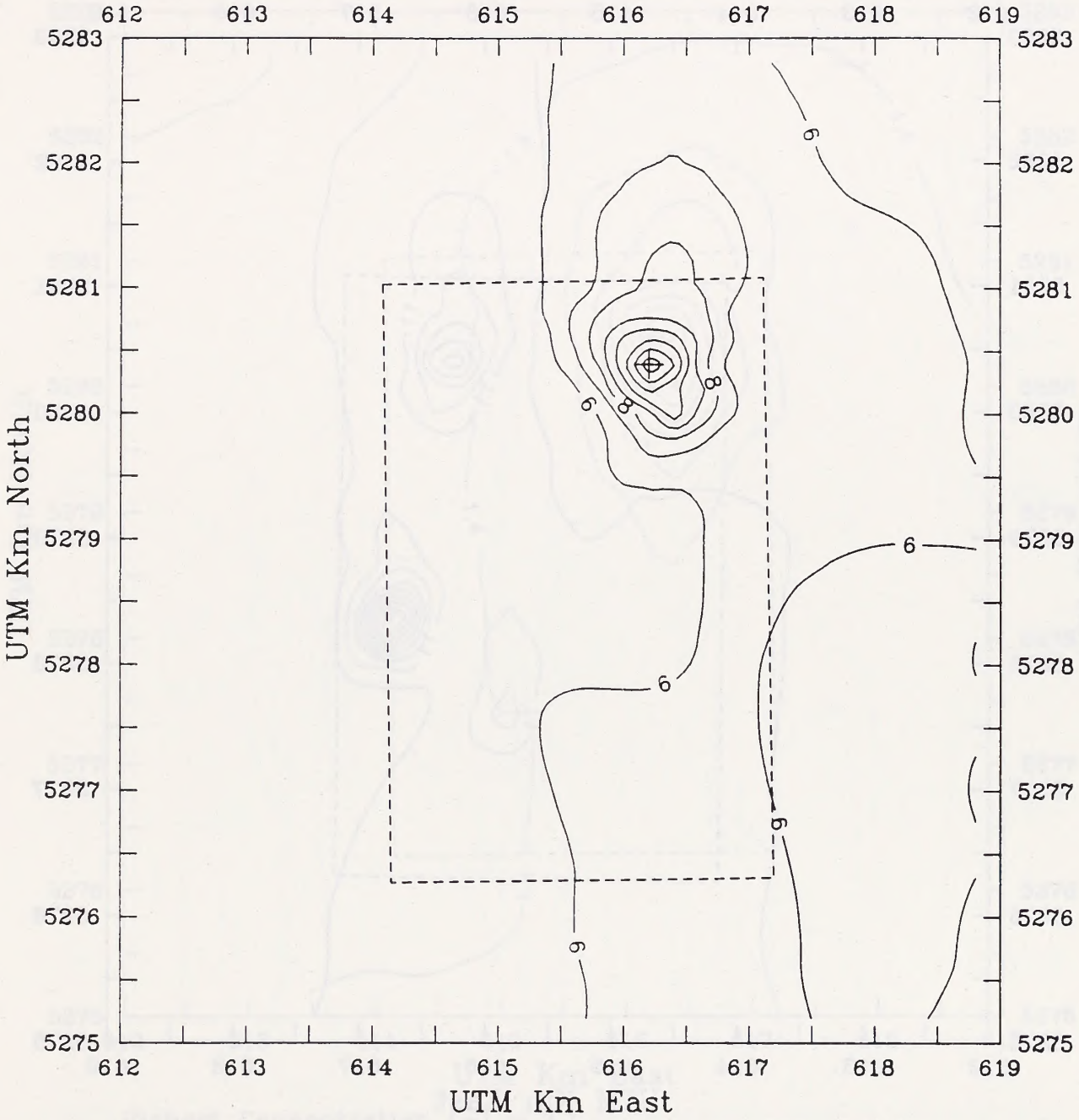
Highest 2nd Highest Concentration (+) = 49
PSD Class II Increment = 512 Contour Interval = 3

Figure C-20
Buffalo Wallow Field - Future PSD Class II Scen.
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



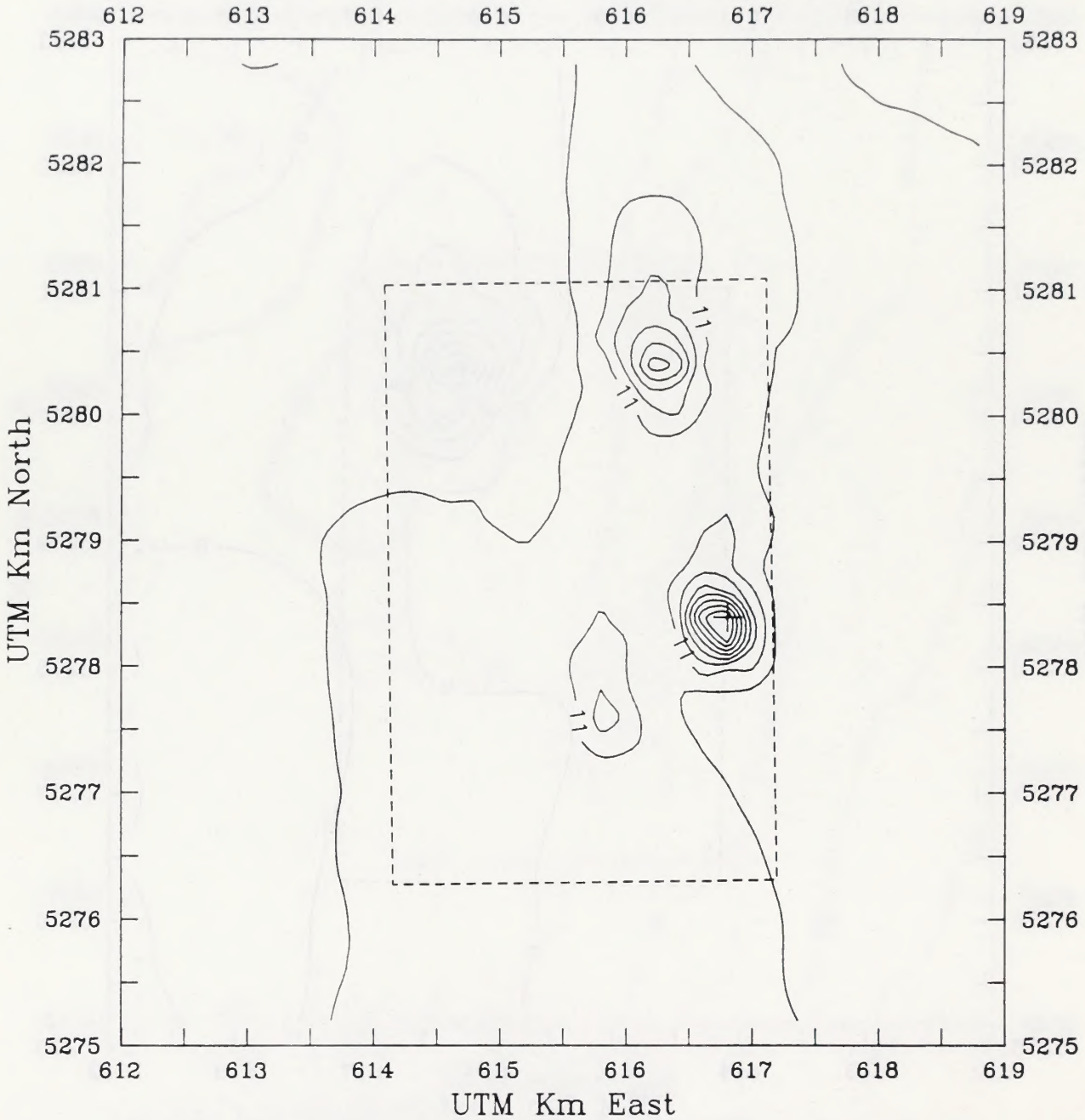
Highest 2nd Highest Concentration (+) = 60
PSD Class II Increment = 512 Contour Interval = 3

Figure C-21
Buffalo Wallow Field - Existing PSD Class II Scen.
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



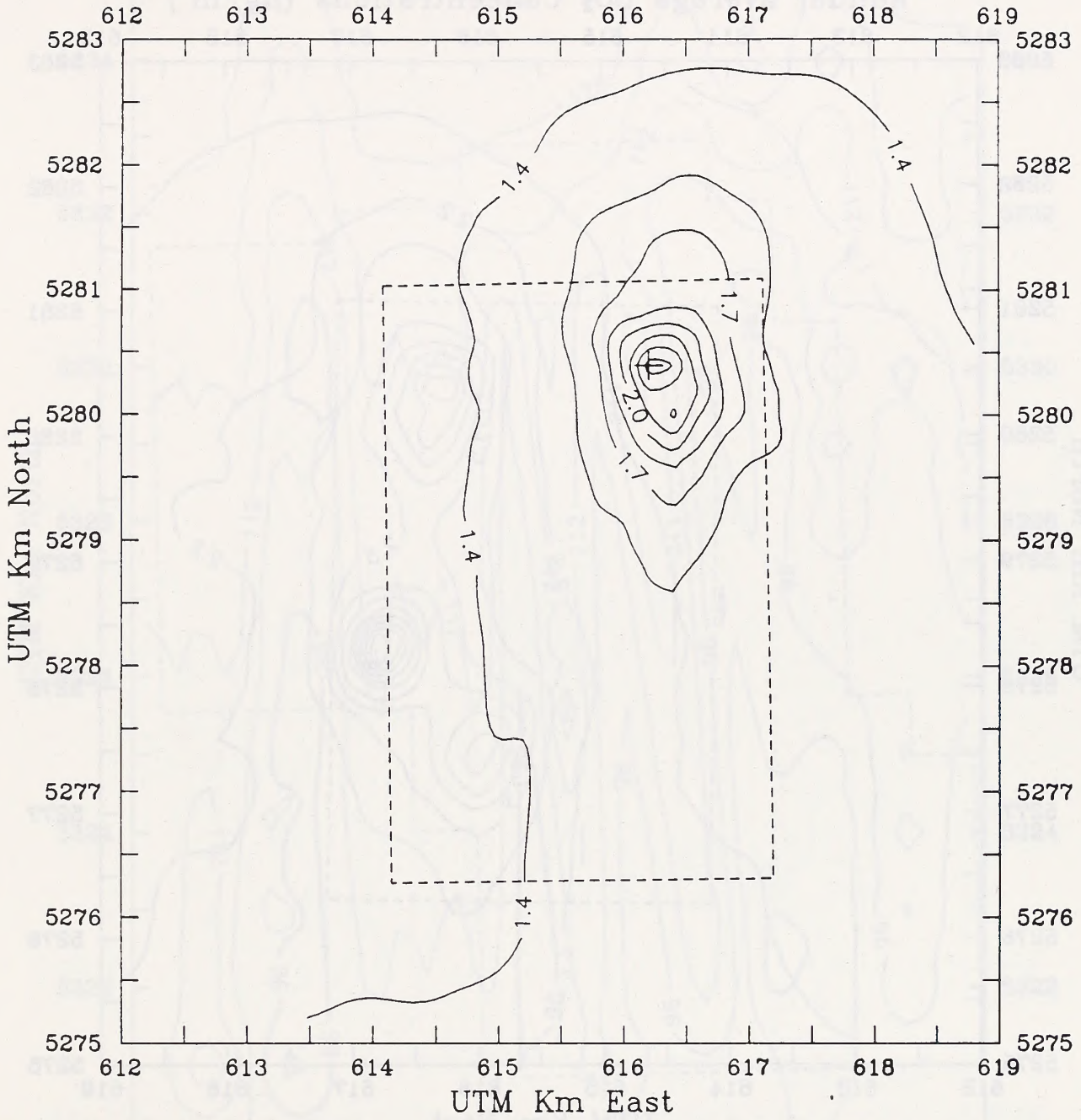
Highest 2nd Highest Concentration (+) = 18.8
PSD Class II Increment = 91 Contour Interval = 1

Figure C-22
Buffalo Wallow Field - Future PSD Class II Scen.
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



Highest 2nd Highest Concentration (+) = 25
PSD Class II Increment = 91 Contour Interval = 1

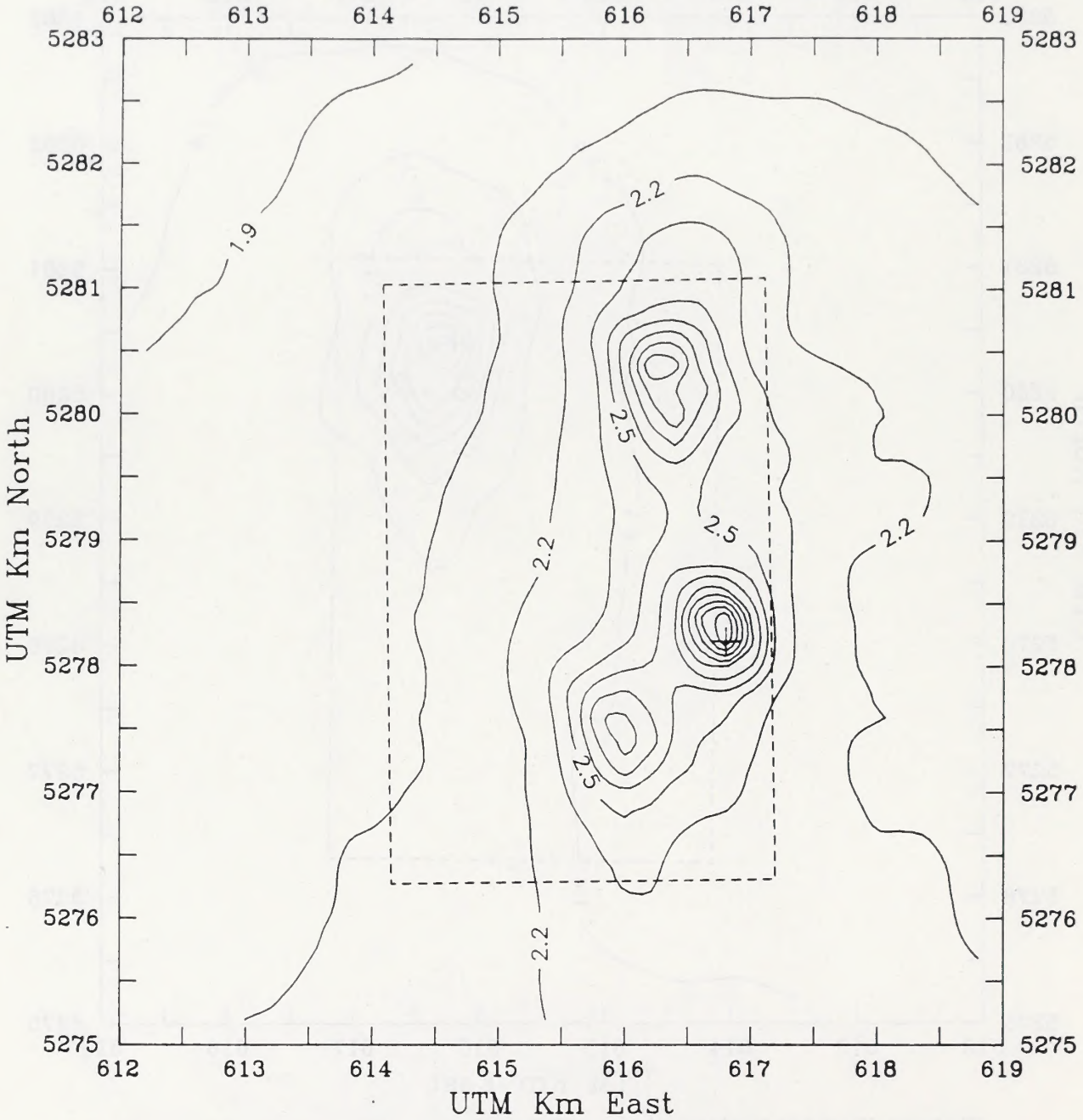
Figure C-23
Buffalo Wallow Field – Existing PSD Class II Scen.
Annual Average SO_2 Concentrations ($\mu g/m^3$)



Highest Concentration (+) = 3.1

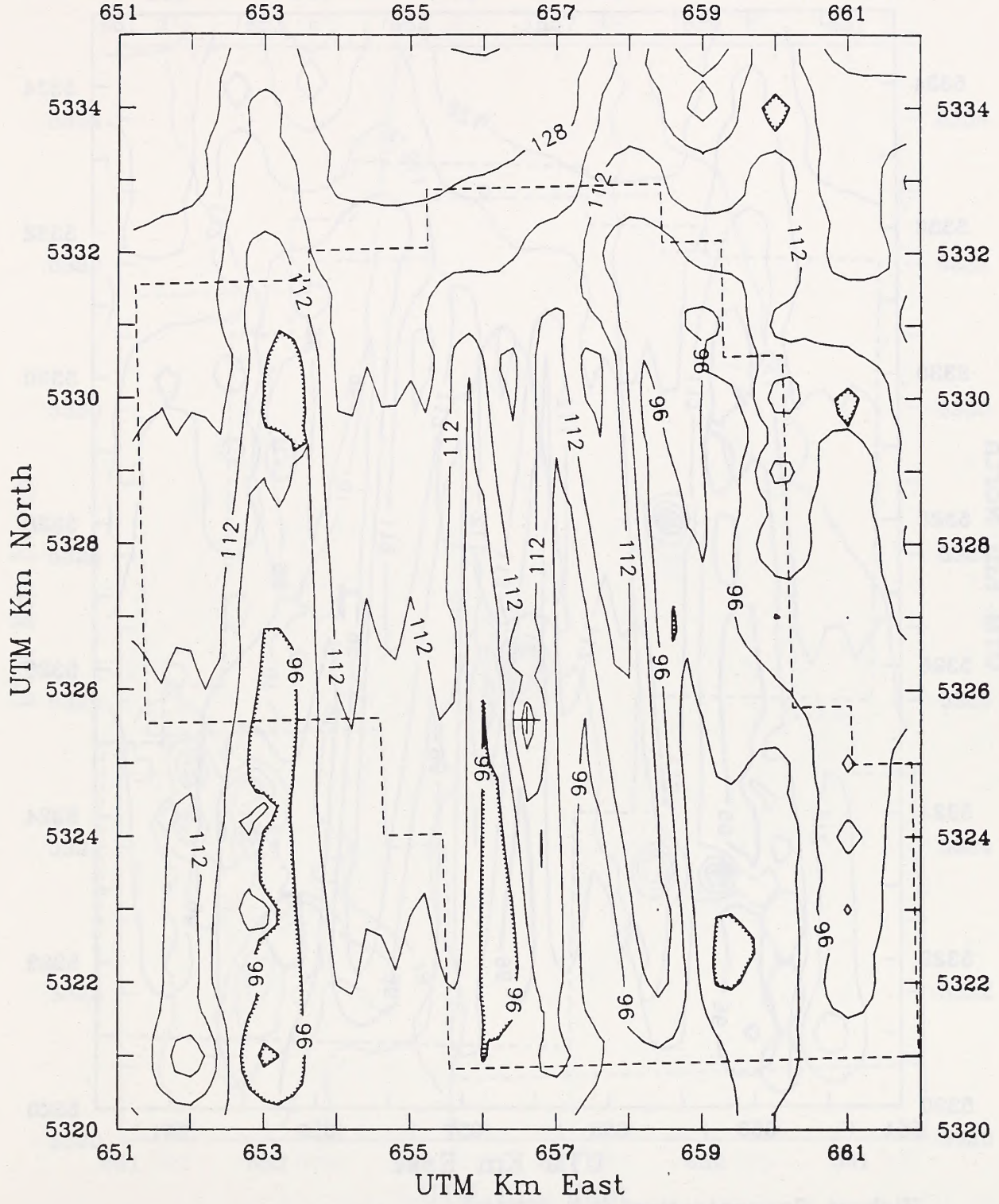
PSD Class II Increment = 15 Contour Interval = 0.15

Figure C-24
Buffalo Wallow Field - Future PSD Class II Scen.
Annual Average SO_2 Concentrations ($\mu g/m^3$)



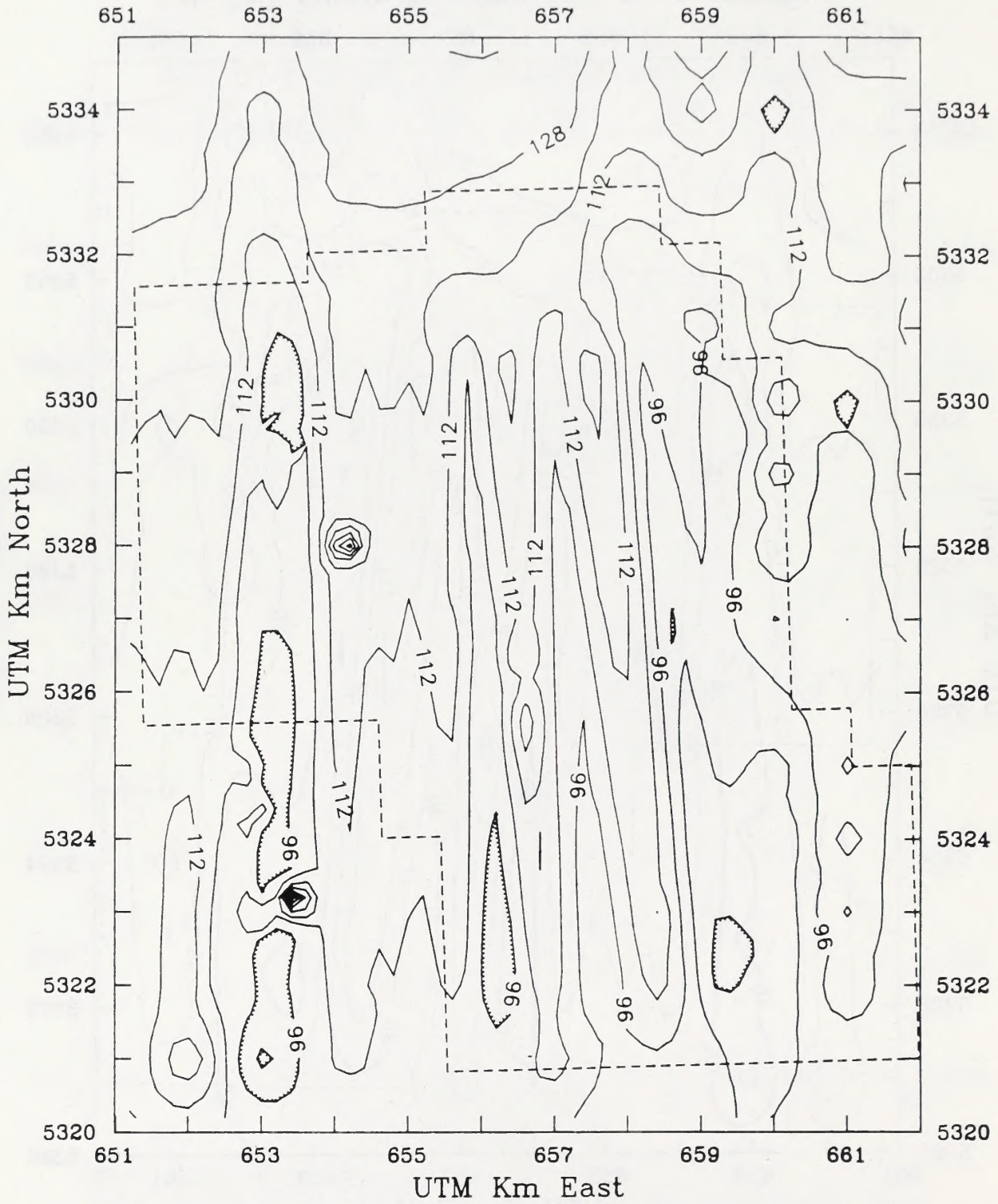
Highest Concentration (+) = 4.4
PSD Class II Increment = 15 Contour Interval = 0.15

Figure C-25
Charlson Field - Existing Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



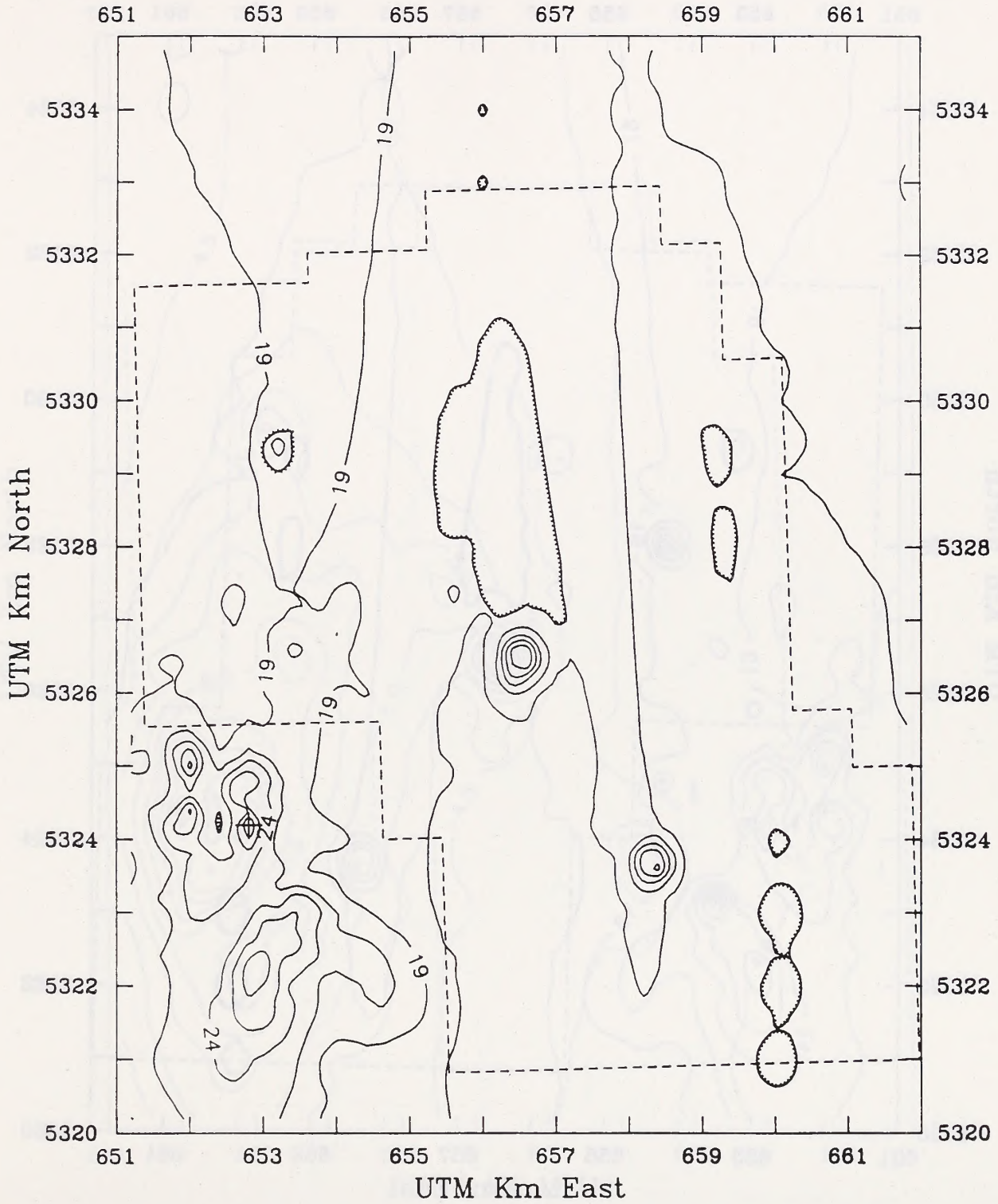
Highest Concentration (+) = 140
Ambient Air Quality Standard = 715 Contour Interval = 8

Figure C-26
Charlson Field - Future Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



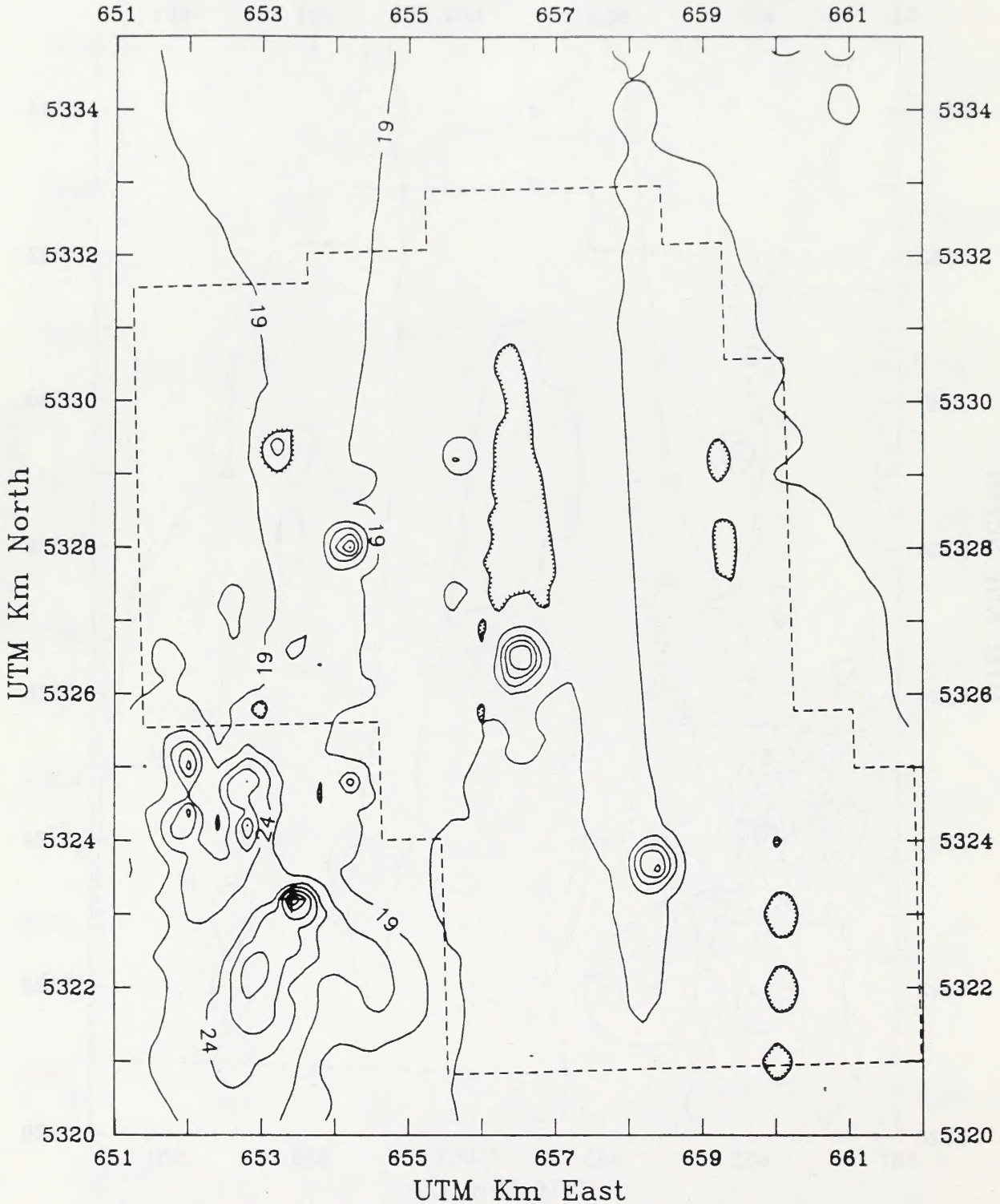
Highest Concentration (+) = 218
Ambient Air Quality Standard = 715 Contour Interval = 8

Figure C-27
Charlson Field - Existing Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



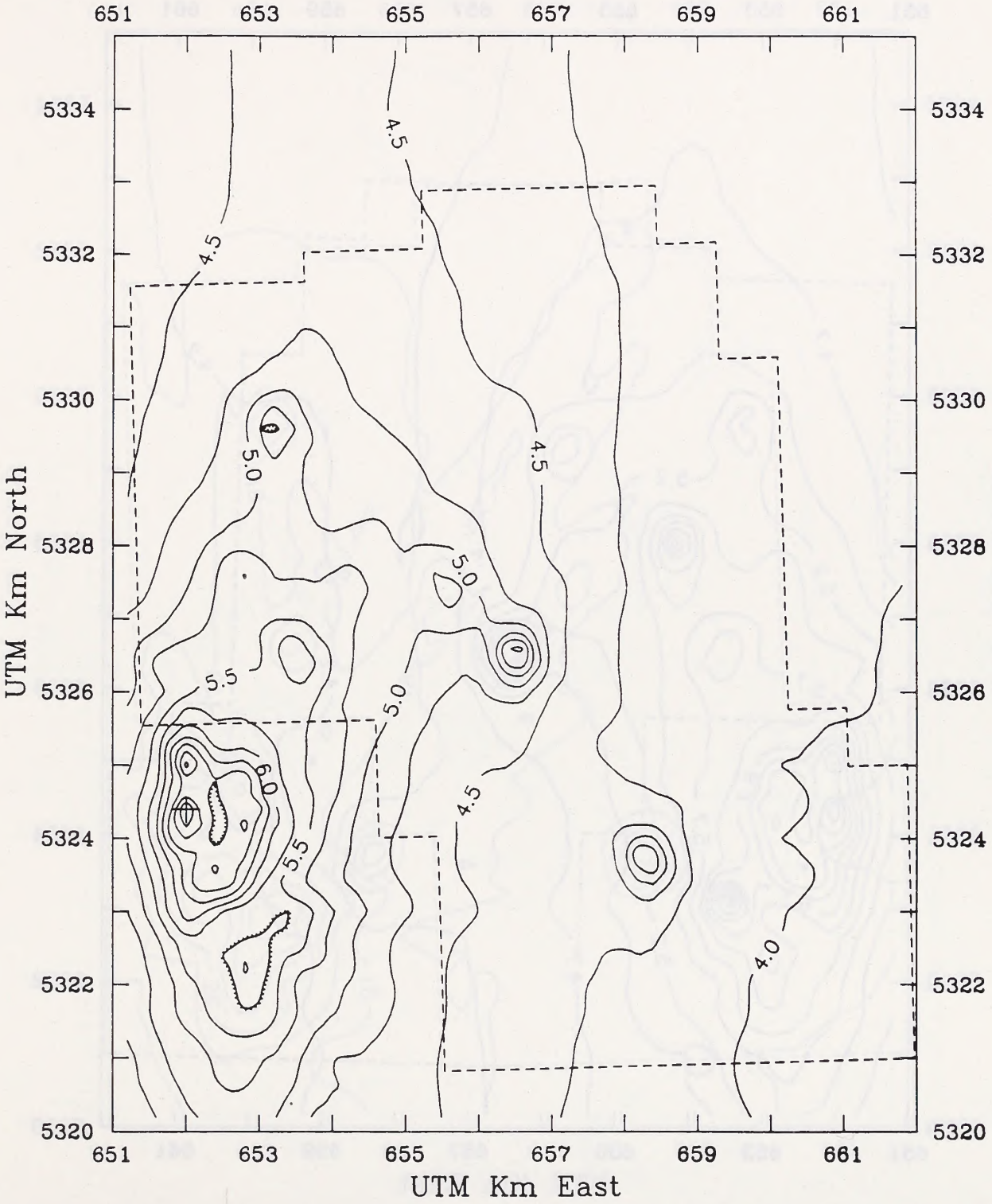
Highest Concentration (+) = 42
Ambient Air Quality Standard = 260 Contour Interval = 2.5

Figure C-28
Charlson Field – Future Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



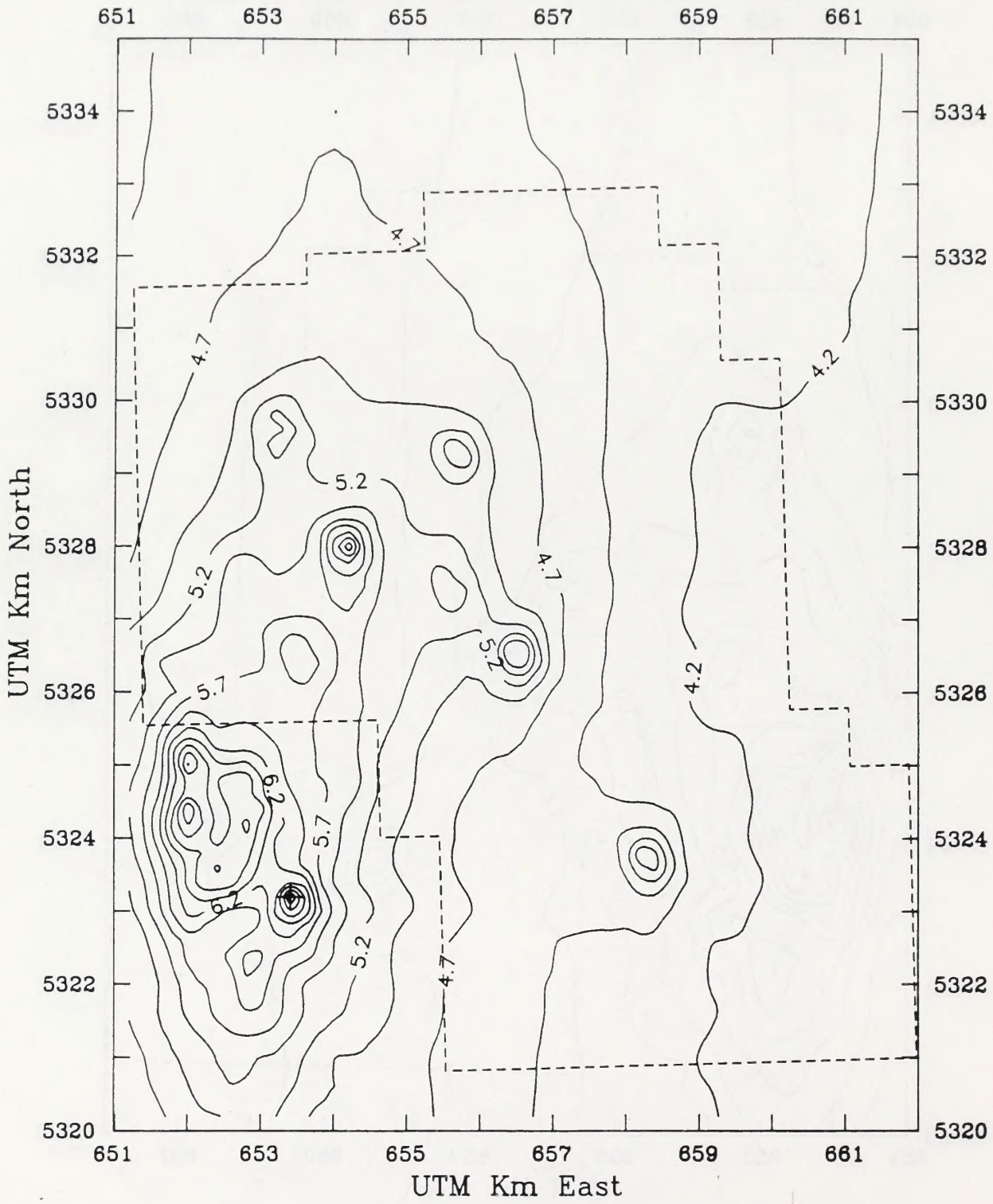
Highest Concentration (+) = 56
Ambient Air Quality Standard = 260 Contour Interval = 2.5

Figure C-29
Charlson Field - Existing Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



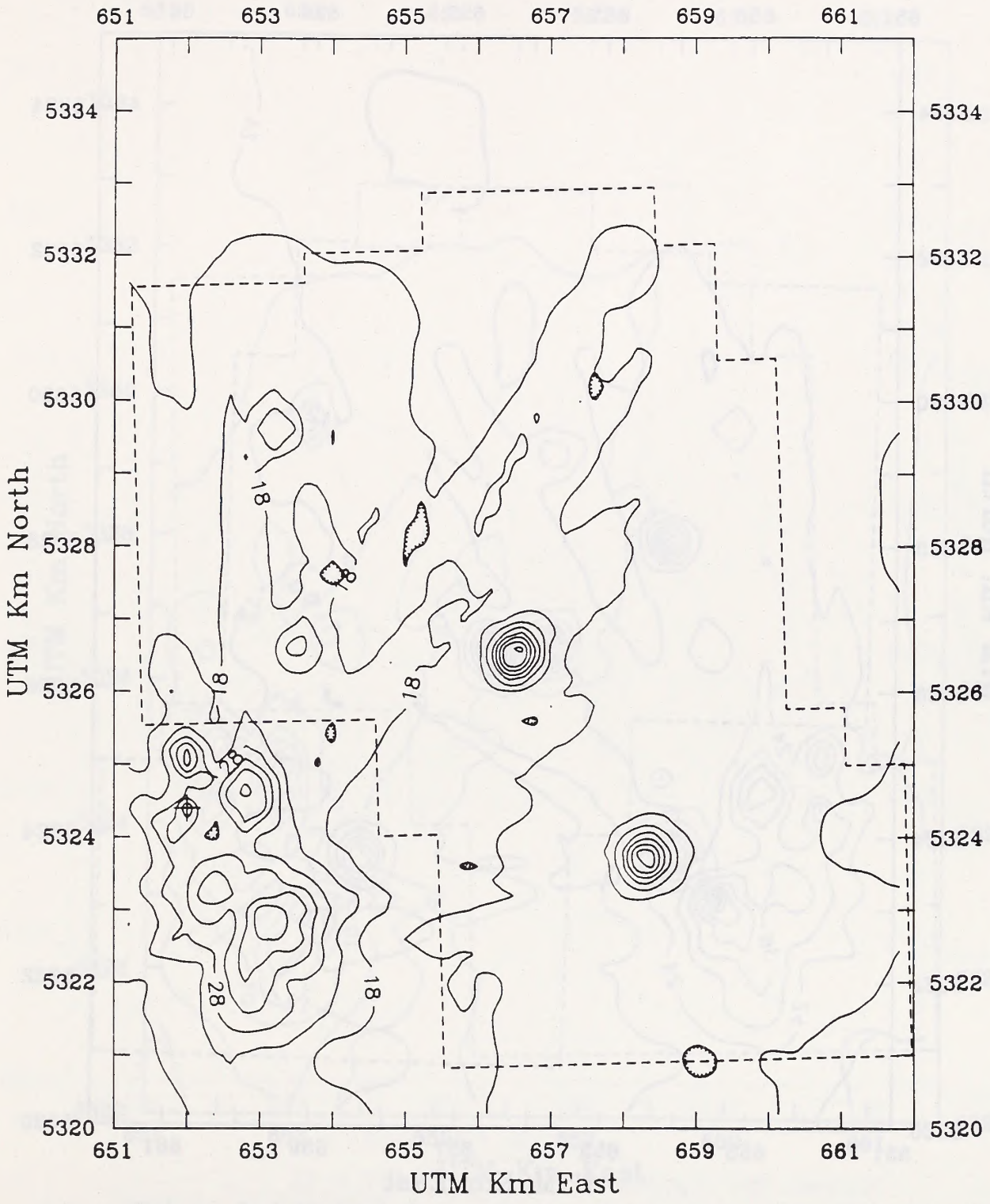
Highest Concentration (+) = 8.4
Ambient Air Quality Standard = 60 Contour Interval = 0.25

Figure C-30
Charlson Field – Future Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



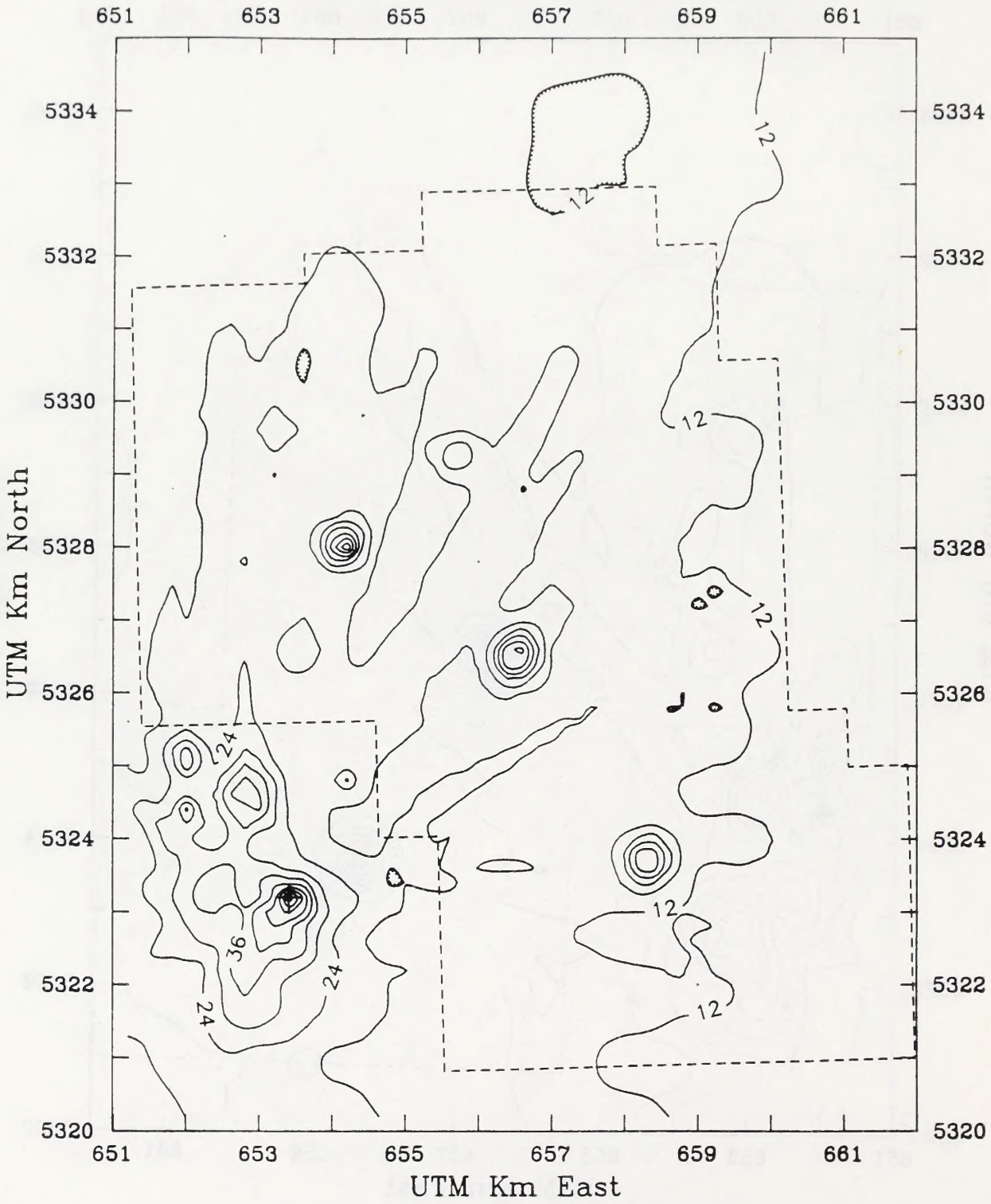
Highest Concentration (+) = 9.1
Ambient Air Quality Standard = 60 Contour Interval = 0.25

Figure C-31
Charlson Field – Existing PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



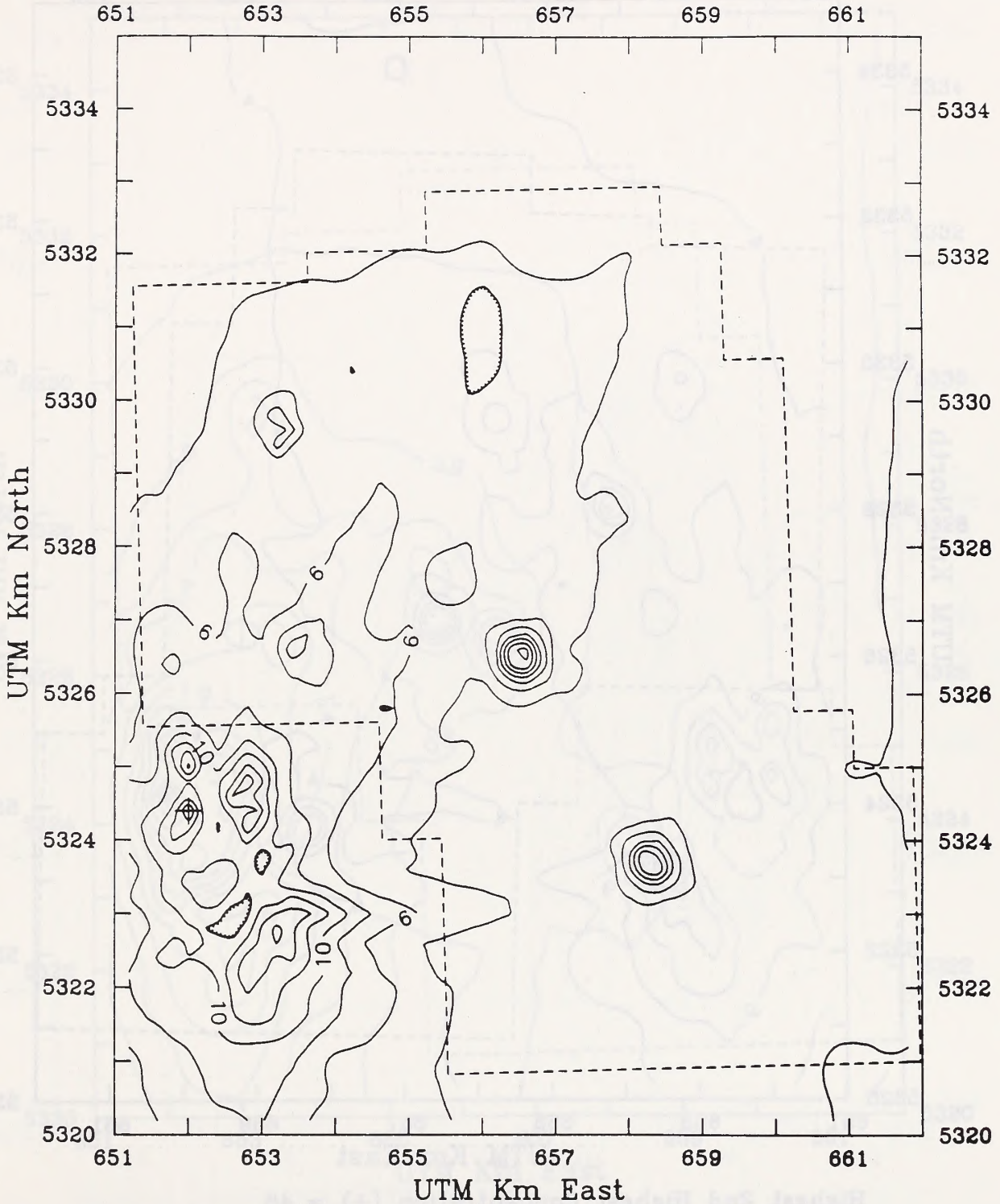
Highest 2nd Highest Concentration (+) = 70
PSD Class II Increment = 512 Contour Interval = 5

Figure C-32
Charlson Field – Future PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



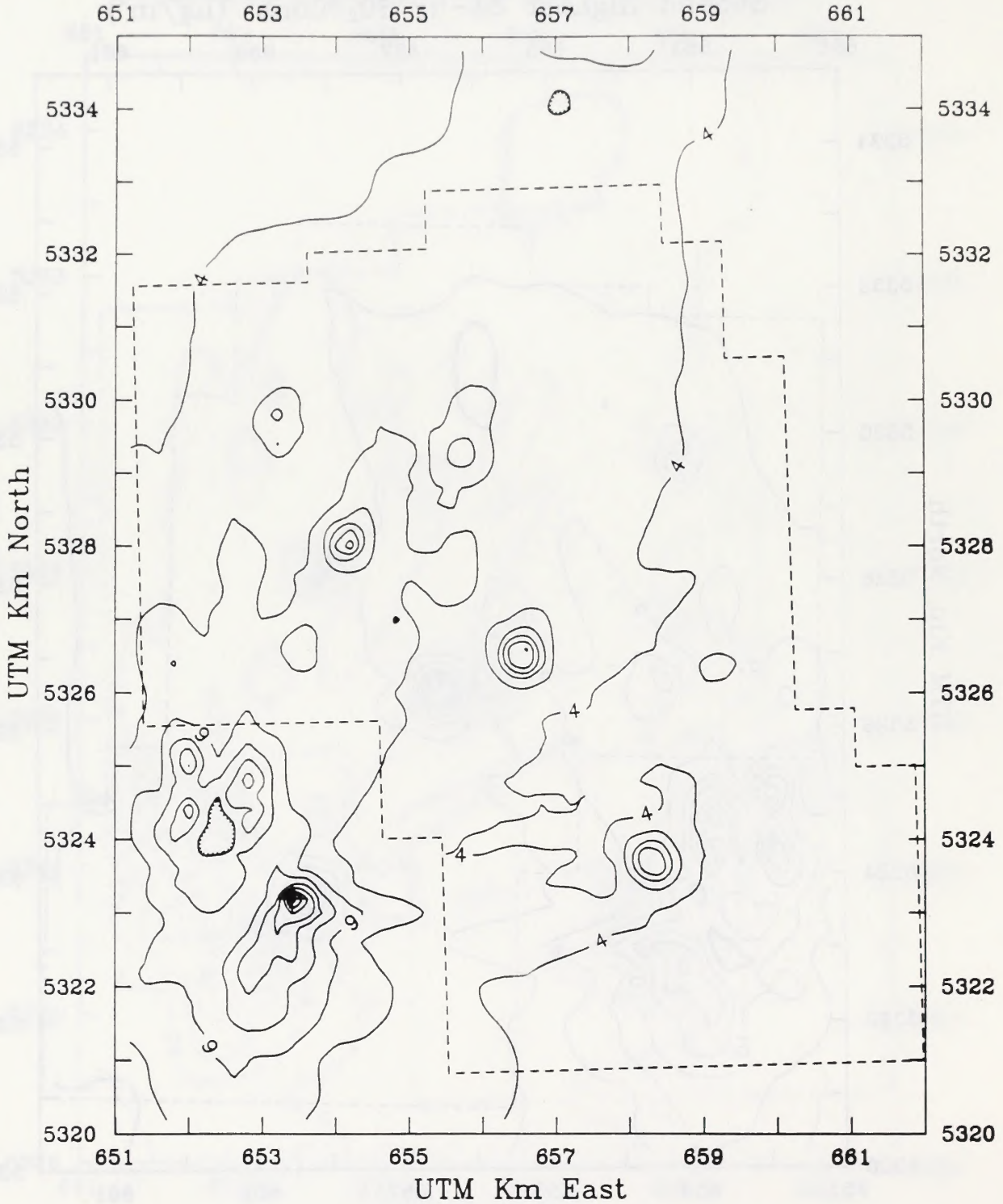
Highest 2nd Highest Concentration (+) = 114
PSD Class II Increment = 512 Contour Interval = 6

Figure C-33
Charlson Field - Existing PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



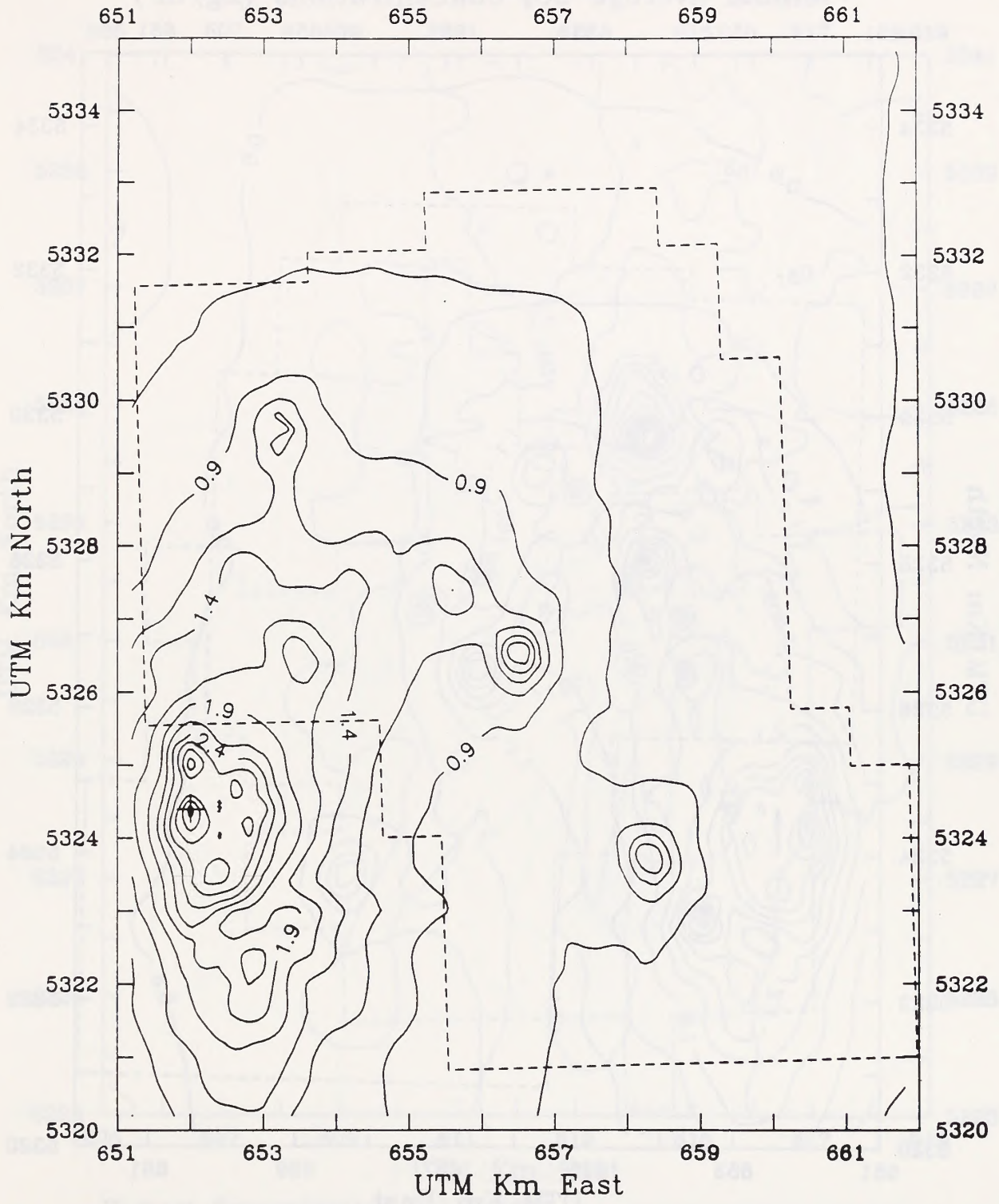
Highest 2nd Highest Concentration (+) = 30
PSD Class II Increment = 91 Contour Interval = 2

Figure C-34
Charlson Field - Future PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



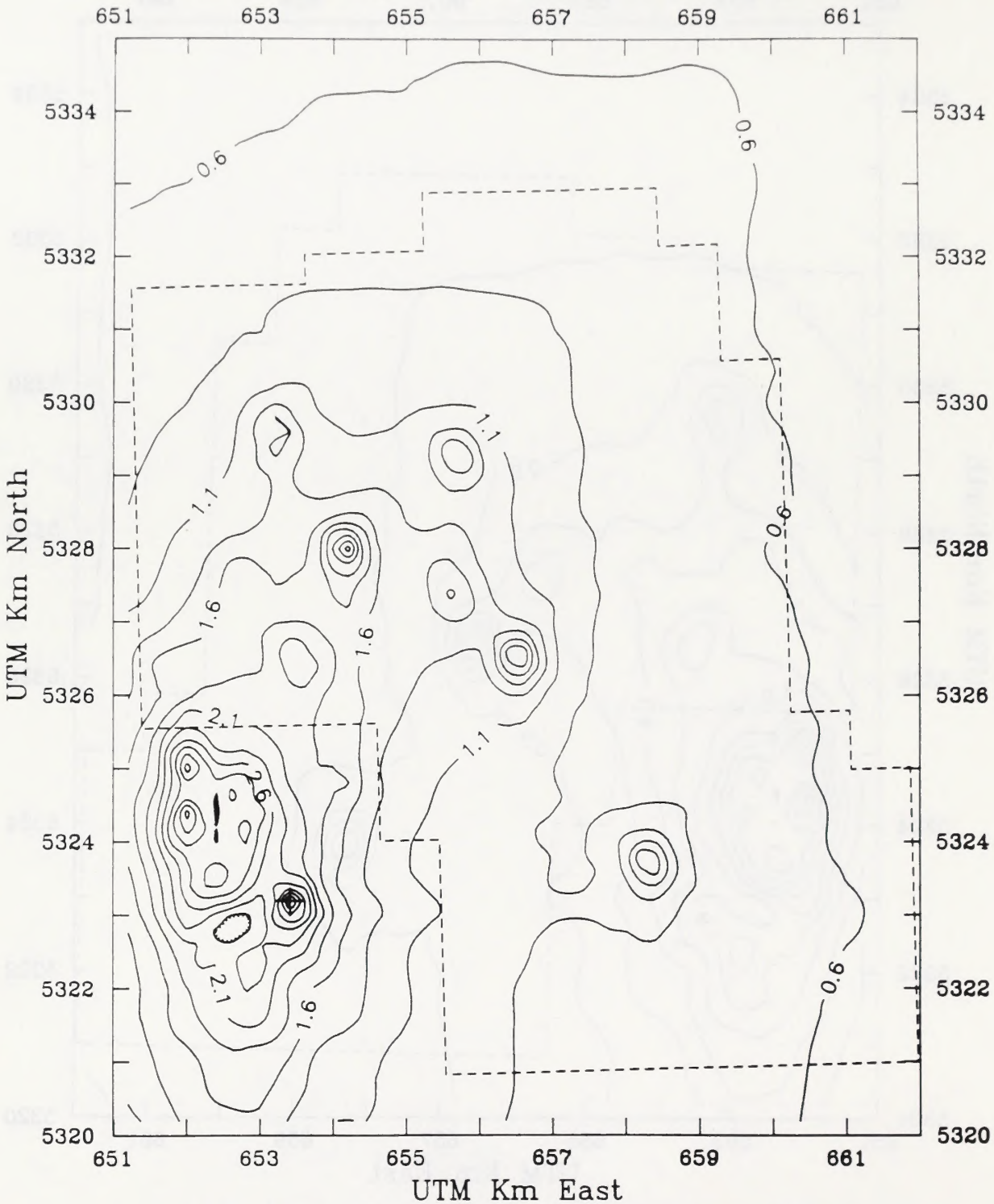
Highest 2nd Highest Concentration (+) = 45
PSD Class II Increment = 91 Contour Interval = 2.5

Figure C-35
Charlson Field – Existing PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



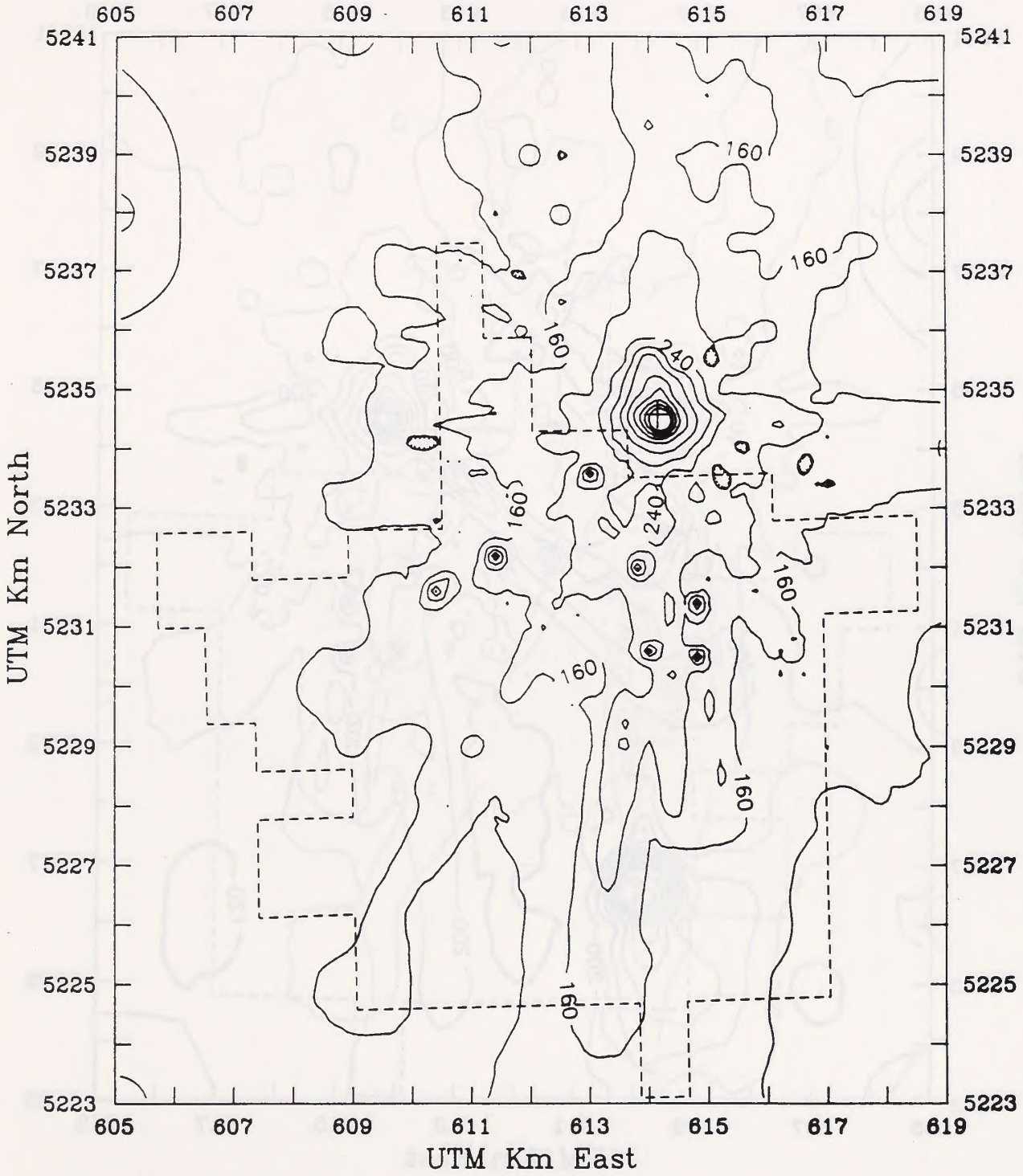
Highest Concentration (+) = 4.7
PSD Class II Increment = 15 Contour Interval = 0.25

Figure C-36
Charlson Field - Future PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



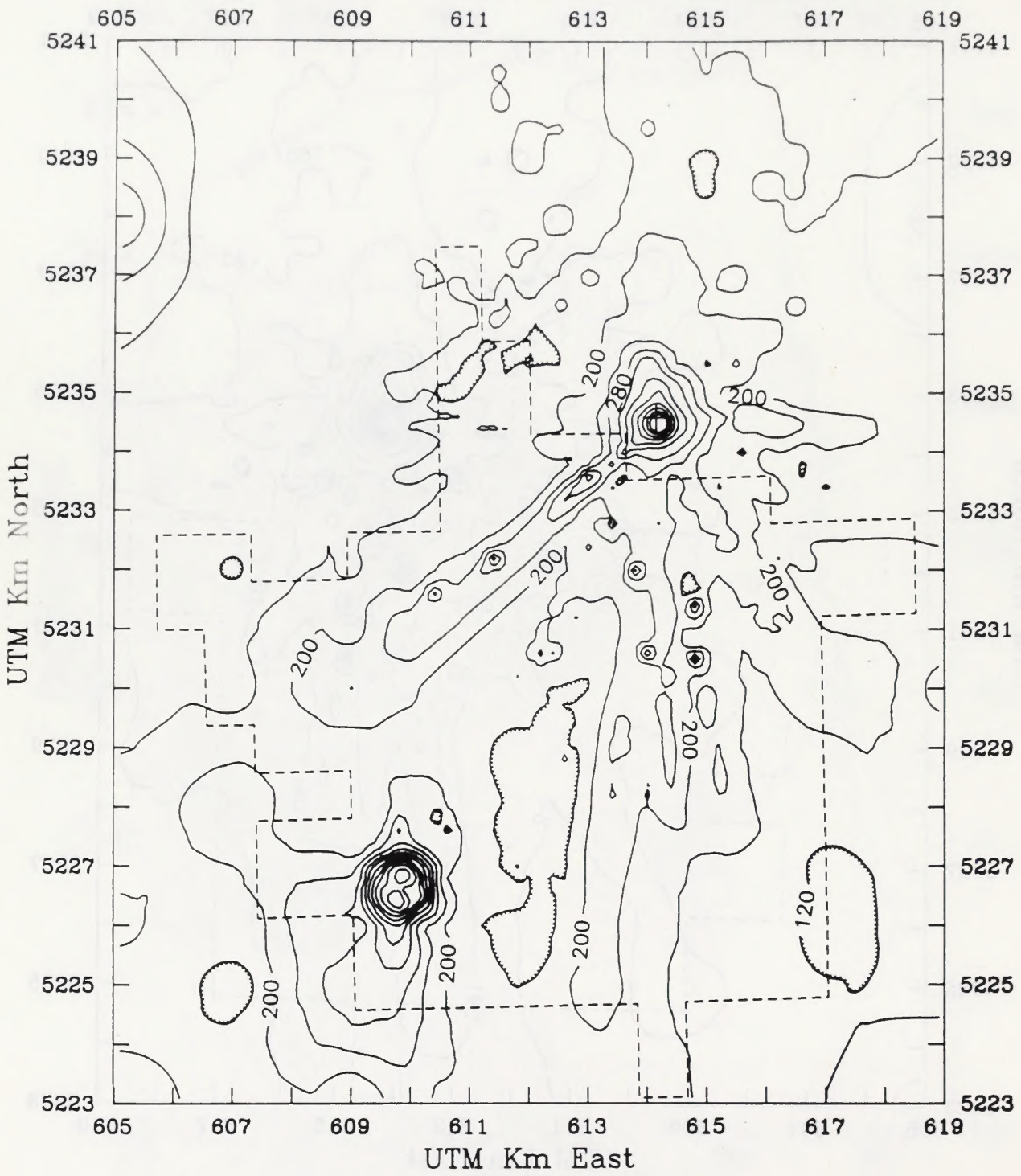
Highest Concentration (+) = 5.3
PSD Class II Increment = 15
Contour Interval = 0.25

Figure C-37
Elkhorn Ranch Field - Existing Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



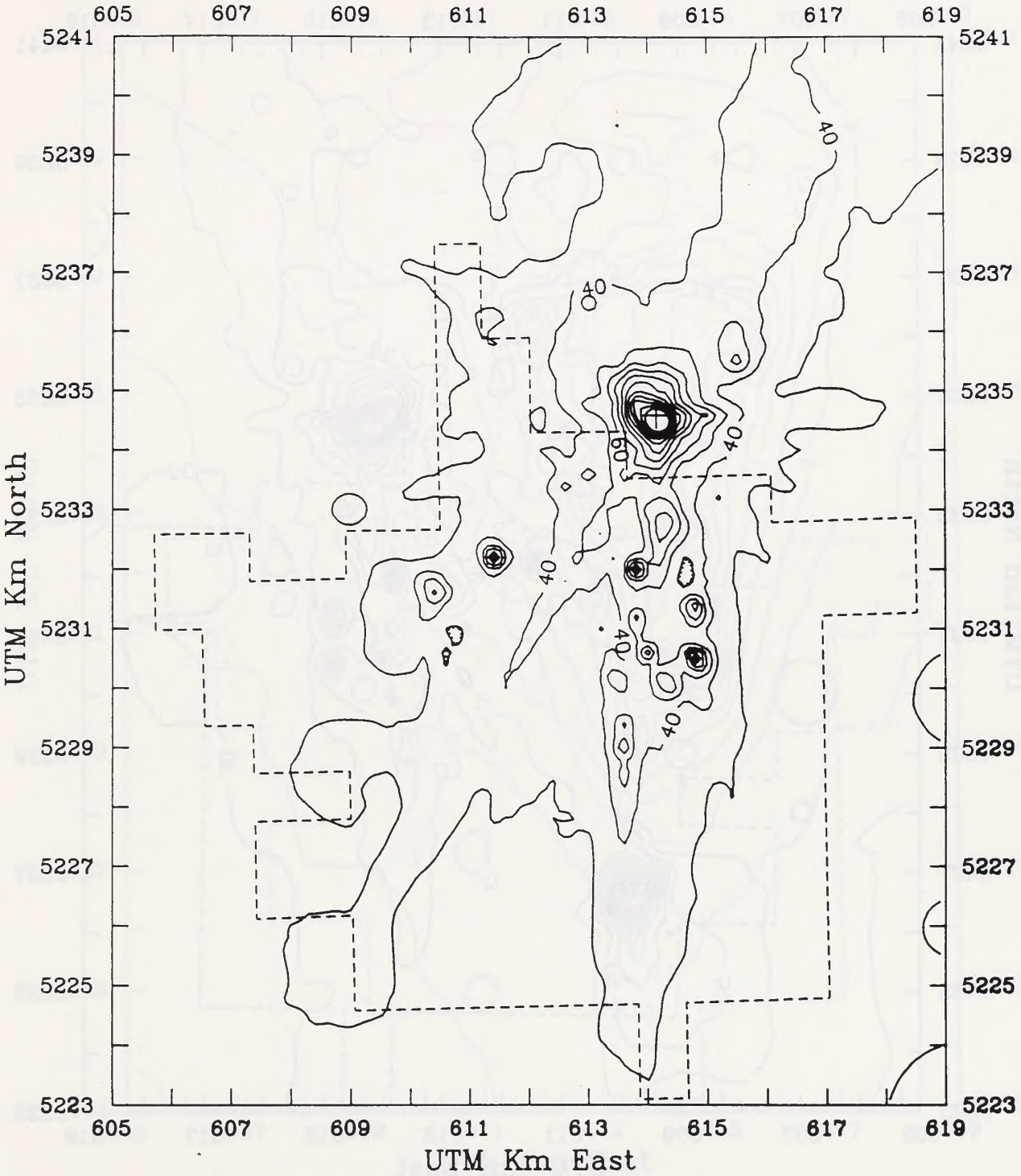
Highest Concentration (+) = 1803
Ambient Air Quality Standard = 715 Contour Interval = 40

Figure C-38
Elkhorn Ranch Field - Future Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



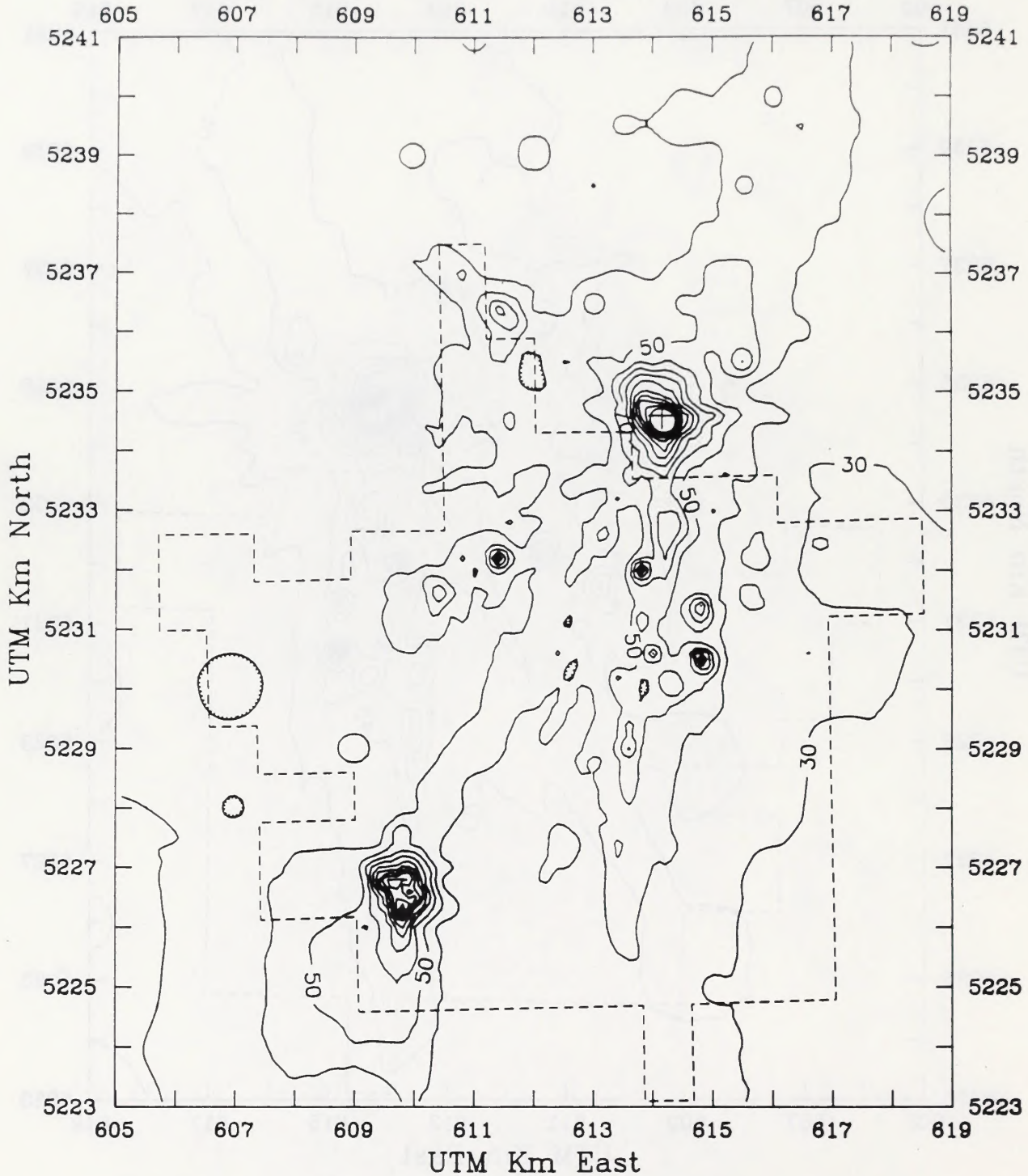
Highest Concentration (+) = 1803
Ambient Air Quality Standard = 715 Contour Interval = 40

Figure C-39
Elkhorn Ranch Field – Existing Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



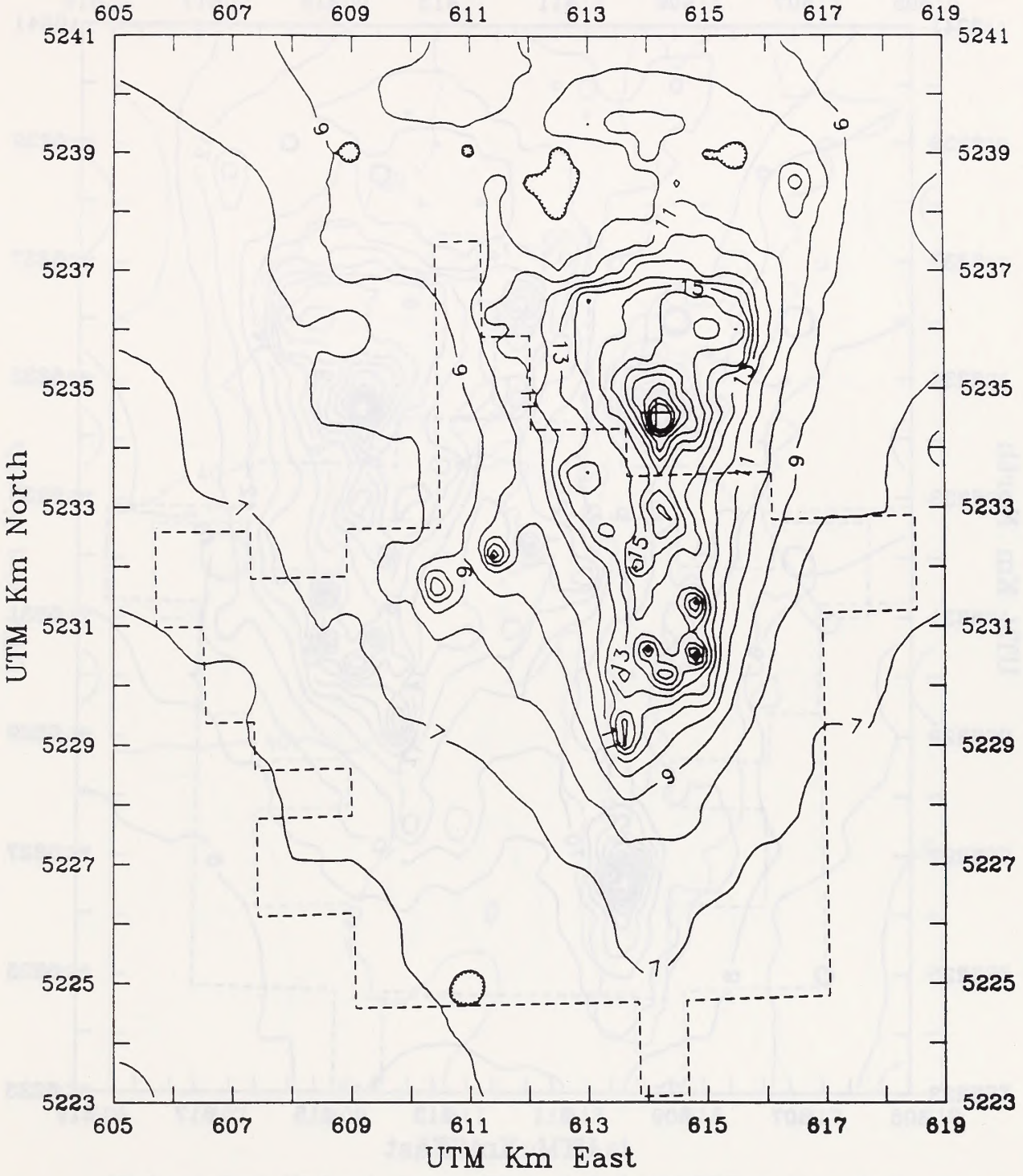
Highest Concentration (+) = 445
Ambient Air Quality Standard = 260 Contour Interval = 10

Figure C-40
Elkhorn Ranch Field - Future Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



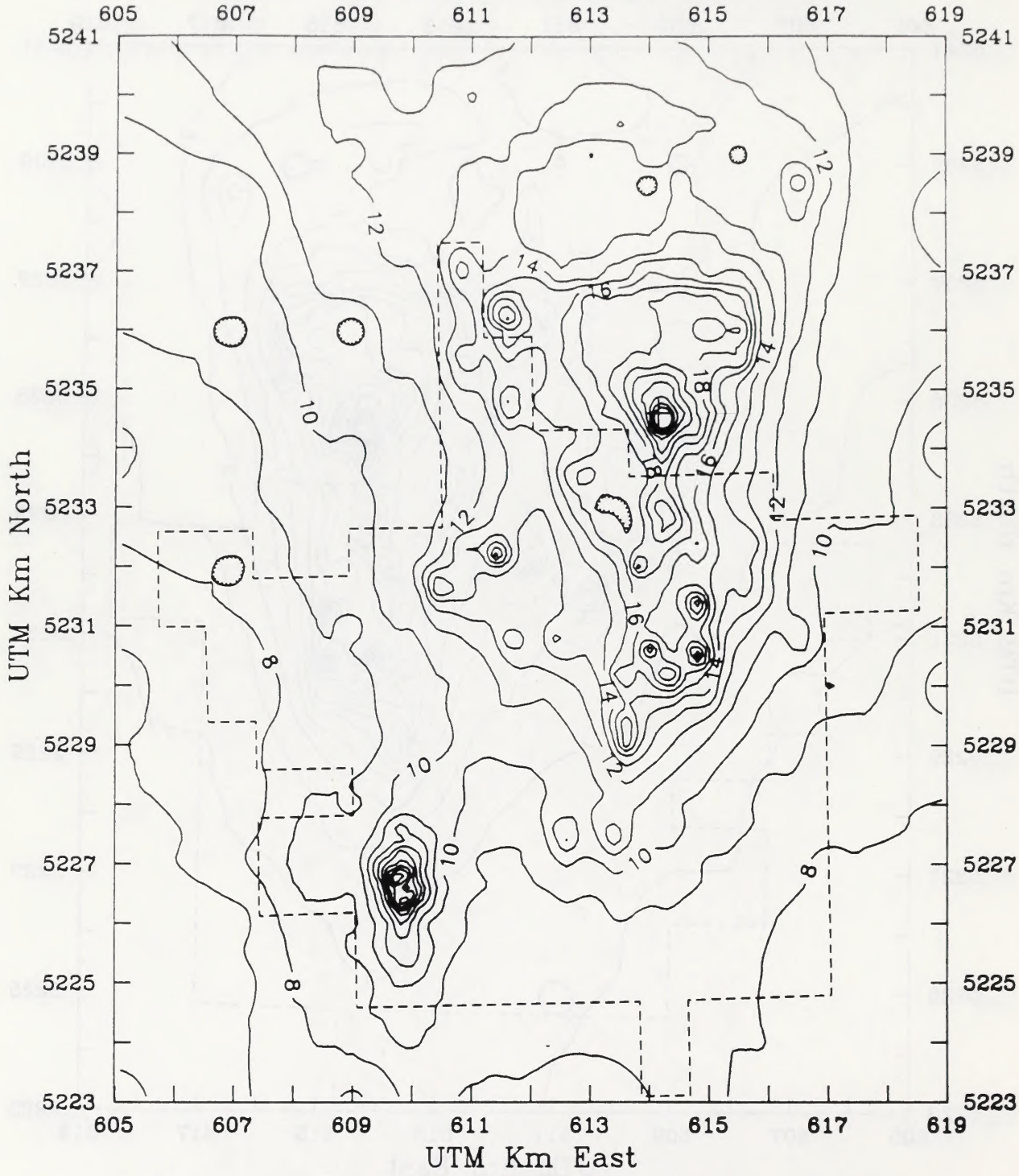
Highest Concentration (+) = 447
Ambient Air Quality Standard = 260 Contour Interval = 10

Figure C-41
Elkhorn Ranch Field – Existing Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



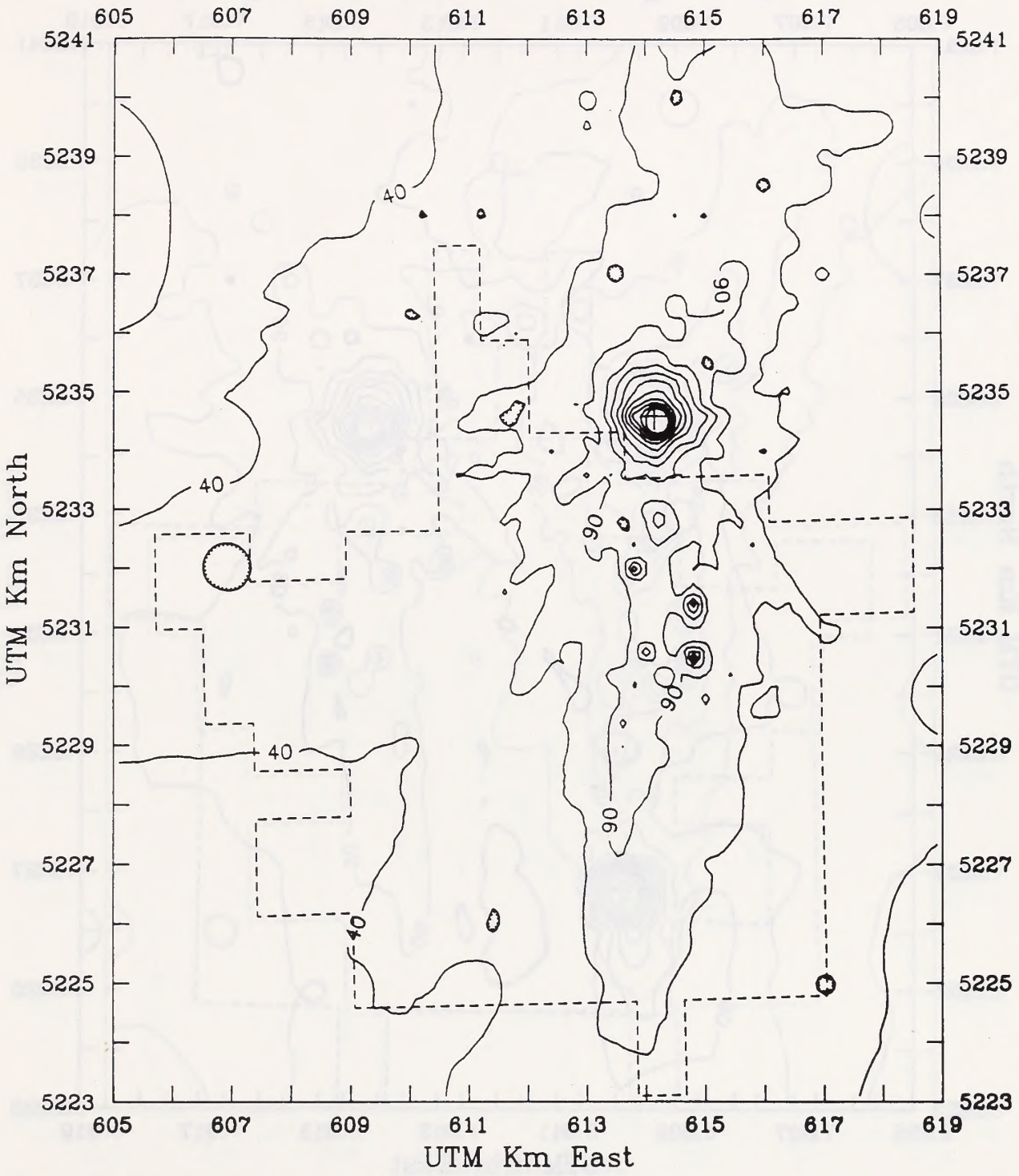
Highest Concentration (+) = 56
Ambient Air Quality Standard = 60 Contour Interval = 1

Figure C-42
Elkhorn Ranch Field - Future Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



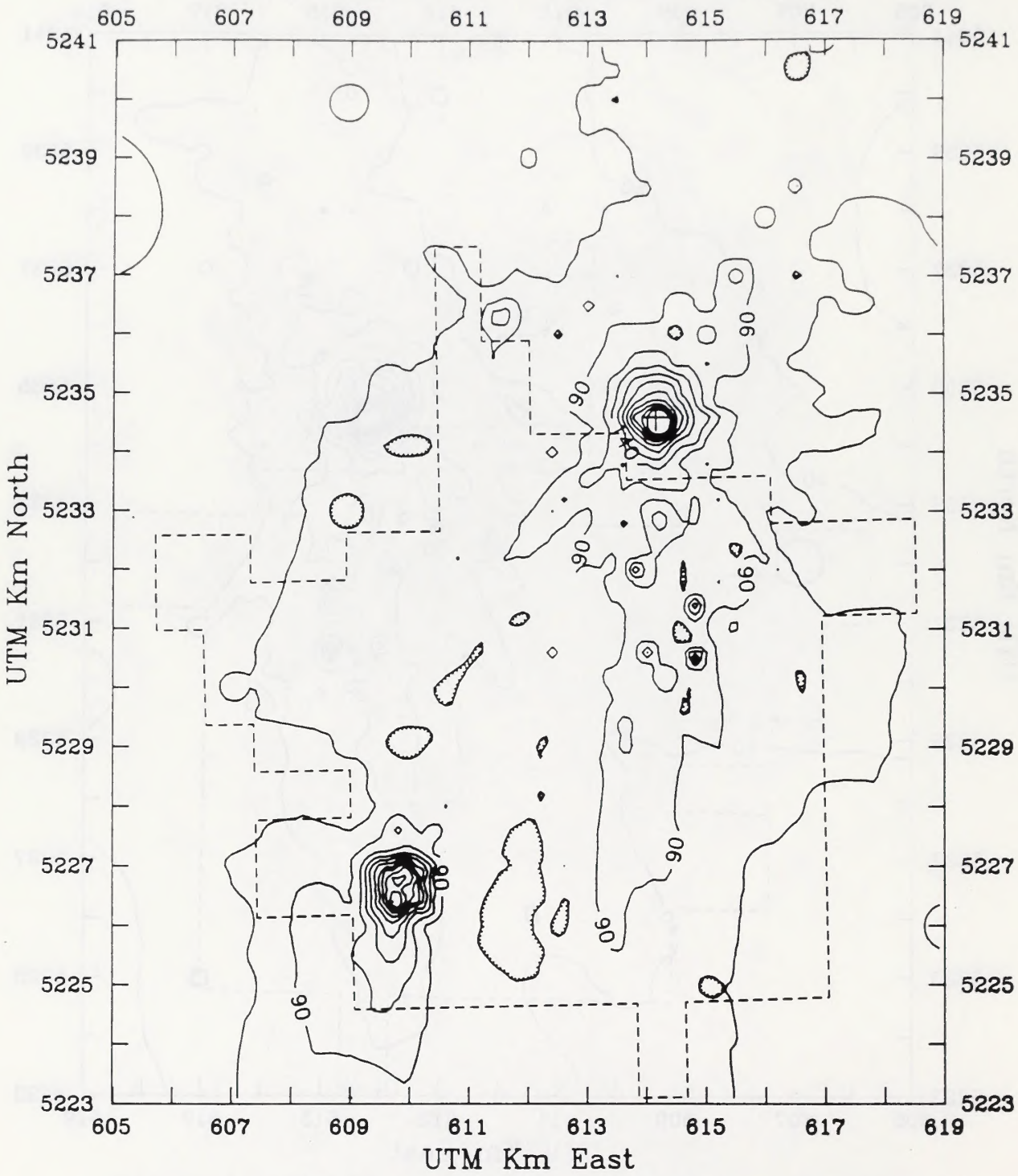
Highest Concentration (+) = 58
Ambient Air Quality Standard = 60 Contour Interval = 1

Figure C-43
Elkhorn Ranch Field - Existing PSD Class II Scen.
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



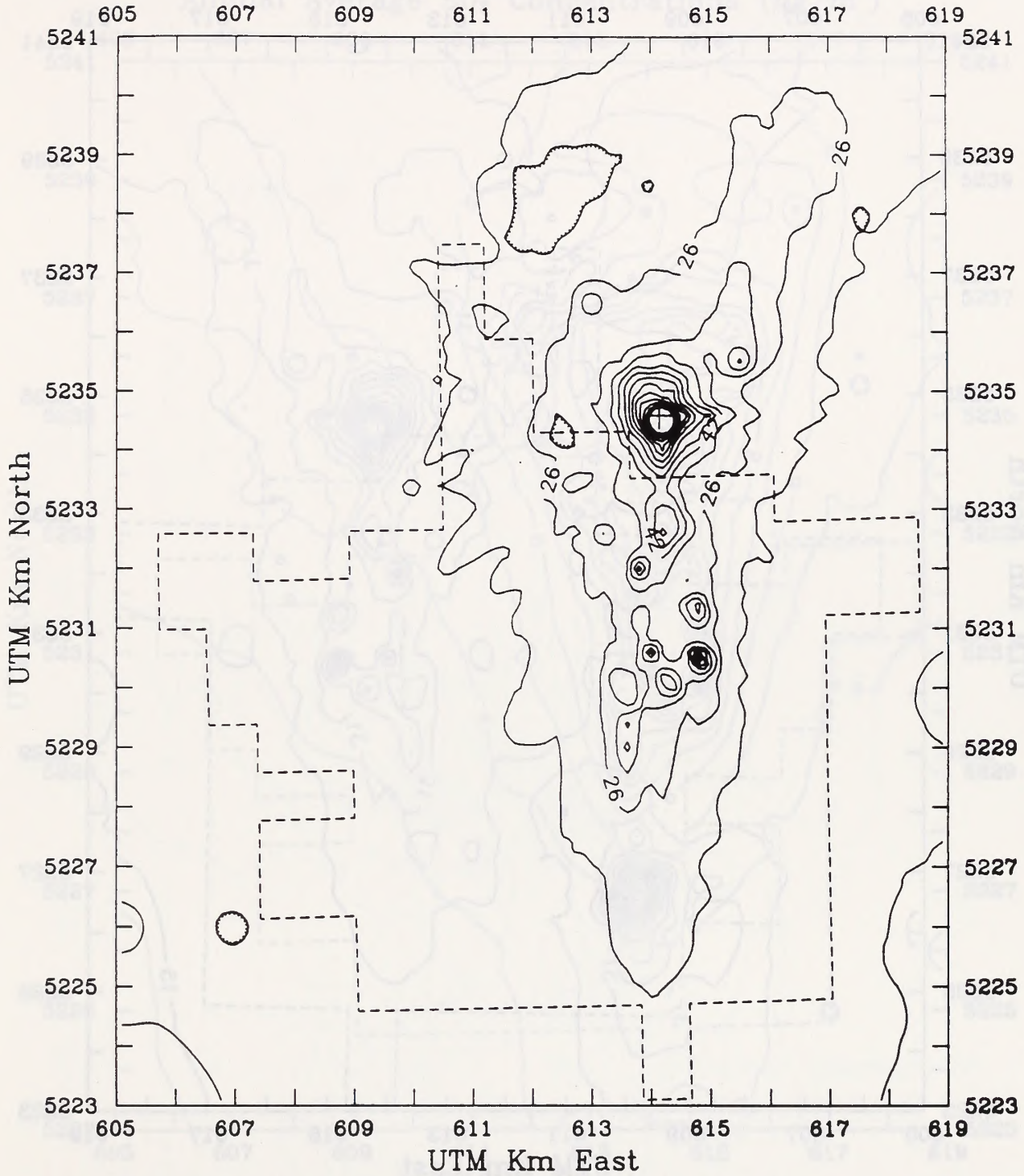
Highest 2nd Highest Concentration (+) = 1357
PSD Class II Increment = 512 Contour Interval = 25

Figure C-44
Elkhorn Ranch Field - Future PSD Class II Scen.
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



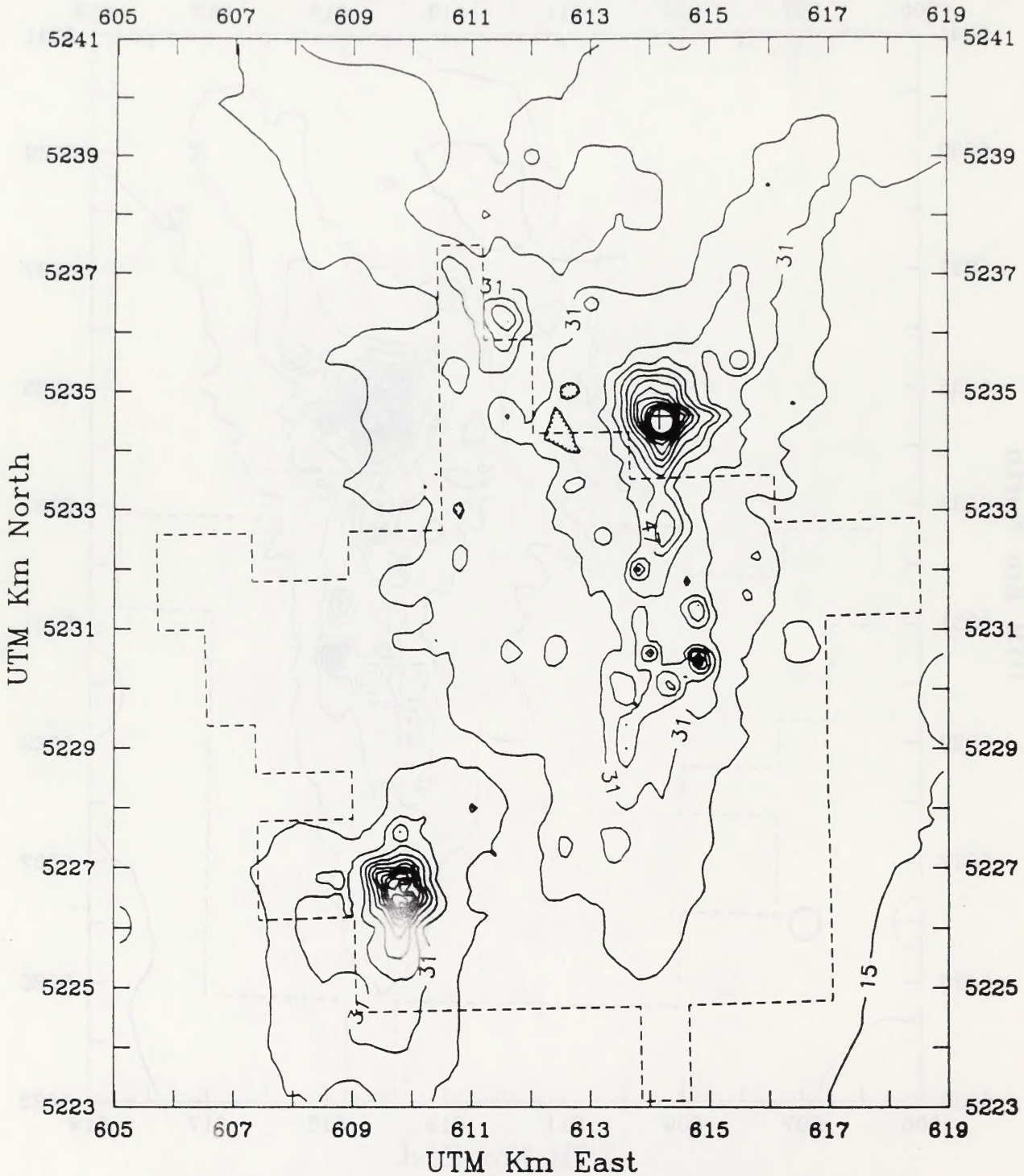
Highest 2nd Highest Concentration (+) = 1358
PSD Class II Increment = 512
Contour Interval = 25

Figure C-45
Elkhorn Ranch Field - Existing PSD Class II Scen.
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



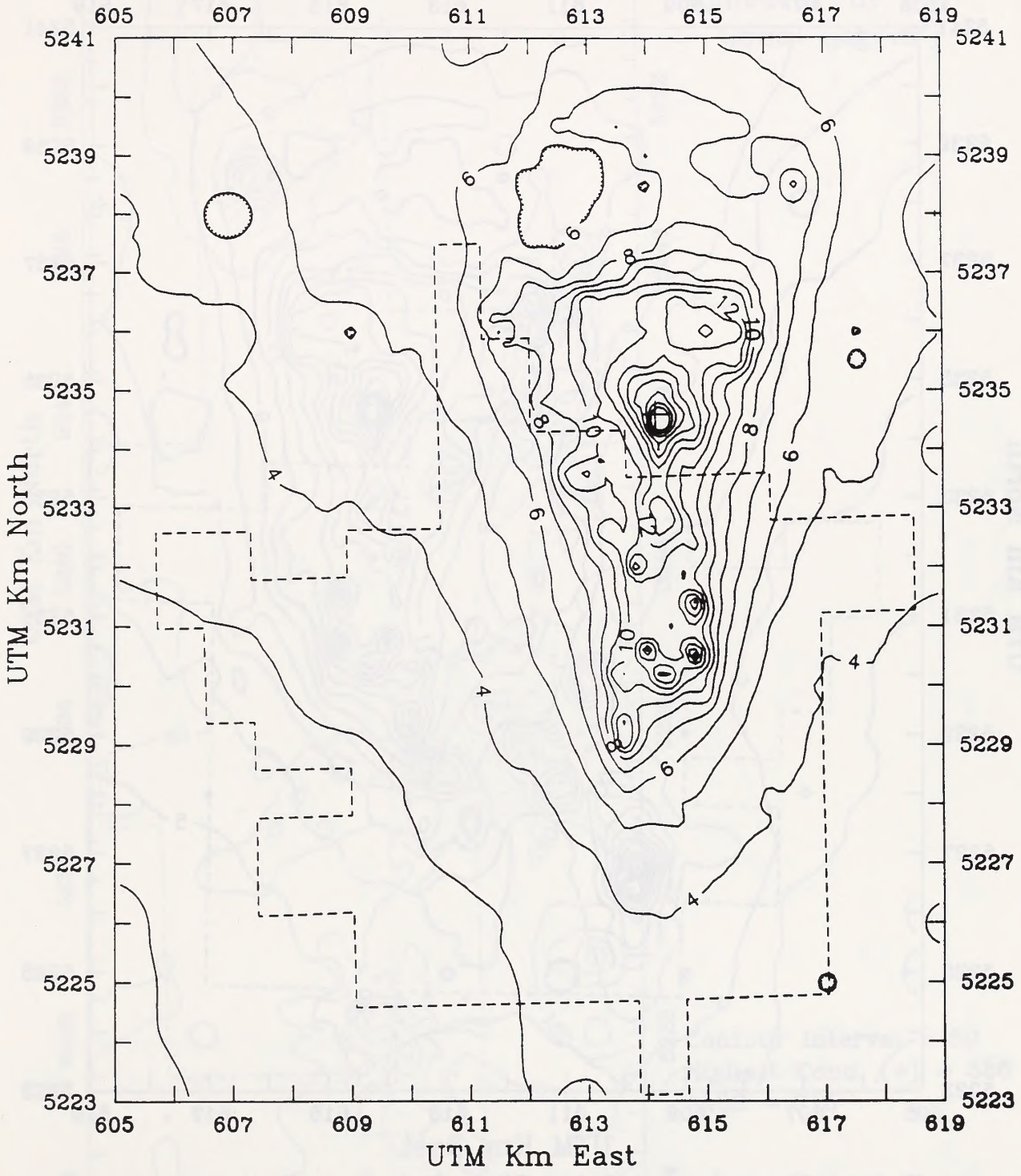
Highest 2nd Highest Concentration (+) = 429
PSD Class II Increment = 91 Contour Interval = 8

Figure C-46
Elkhorn Ranch Field - Future PSD Class II Scen.
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



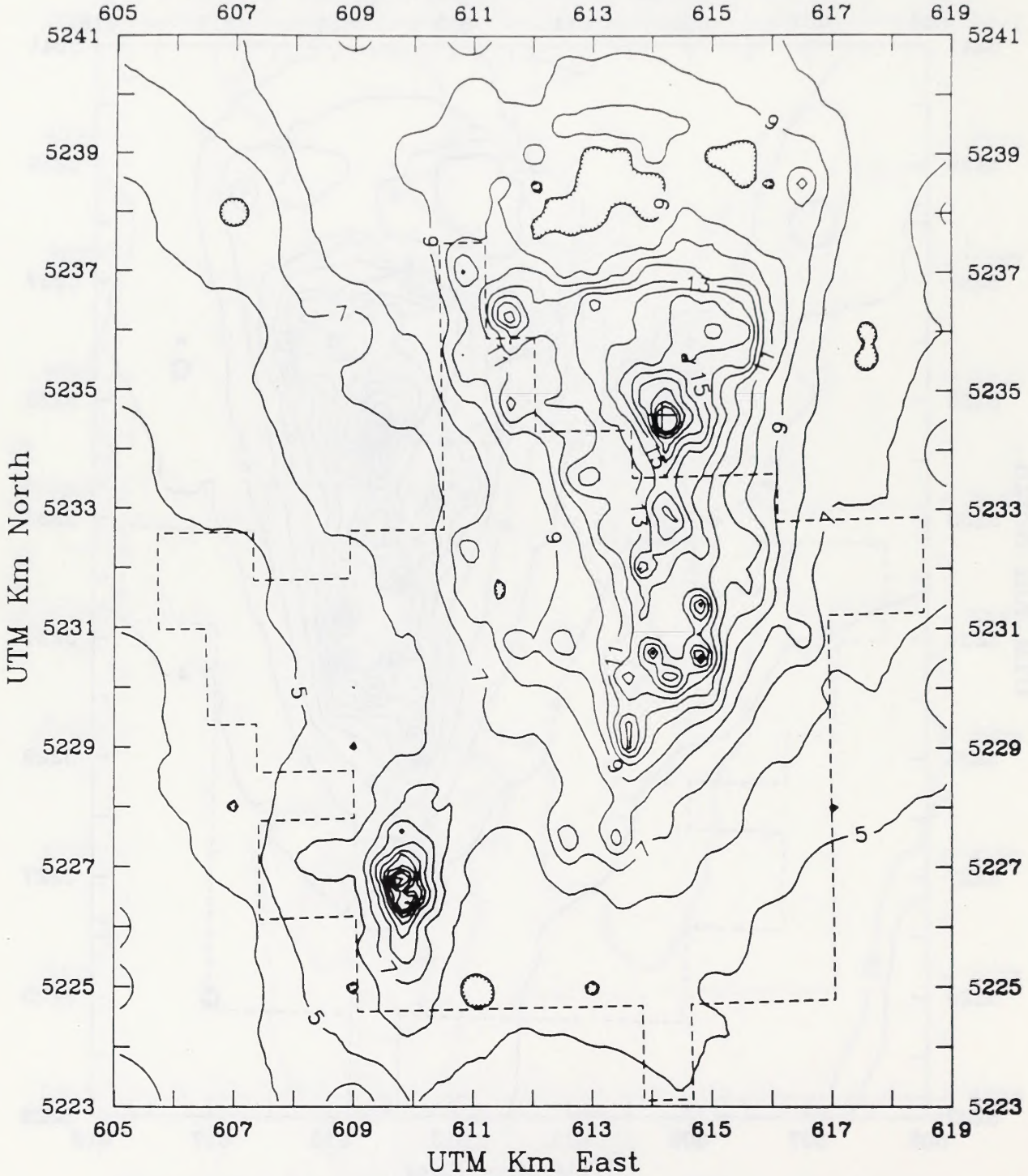
Highest 2nd Highest Concentration (+) = 430
PSD Class II Increment = 91
Contour Interval = 8

Figure C-47
Elkhorn Ranch Field – Existing PSD Class II Scen.
Annual Average SO_2 Concentrations ($\mu g/m^3$)



Highest Concentration (+) = 53
PSD Class II Increment = 15
Contour Interval = 1

Figure C-48
Elkhorn Ranch Field - Future PSD Class II Scen.
Annual Average SO_2 Concentrations ($\mu g/m^3$)



Highest Concentration (+) = 55
PSD Class II Increment = 15
Contour Interval = 1

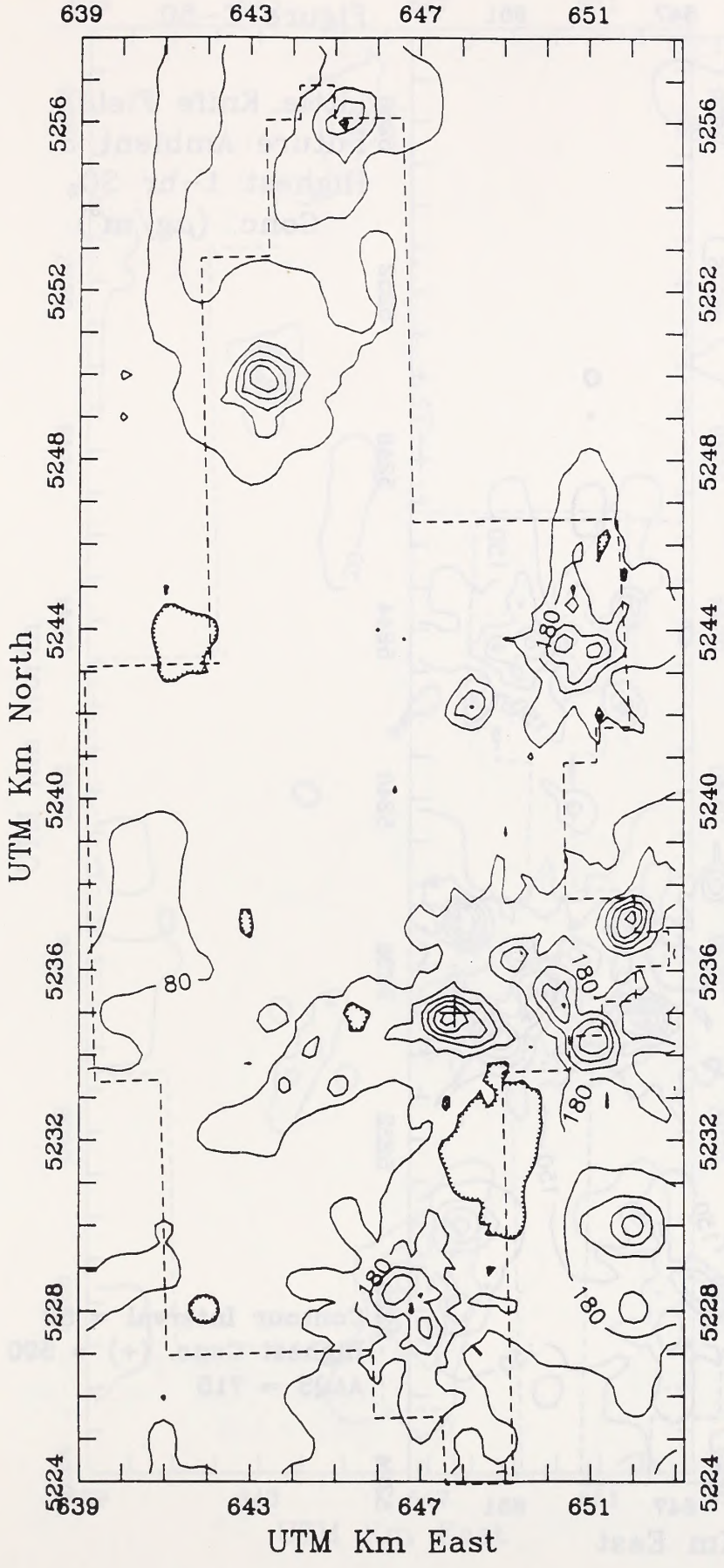
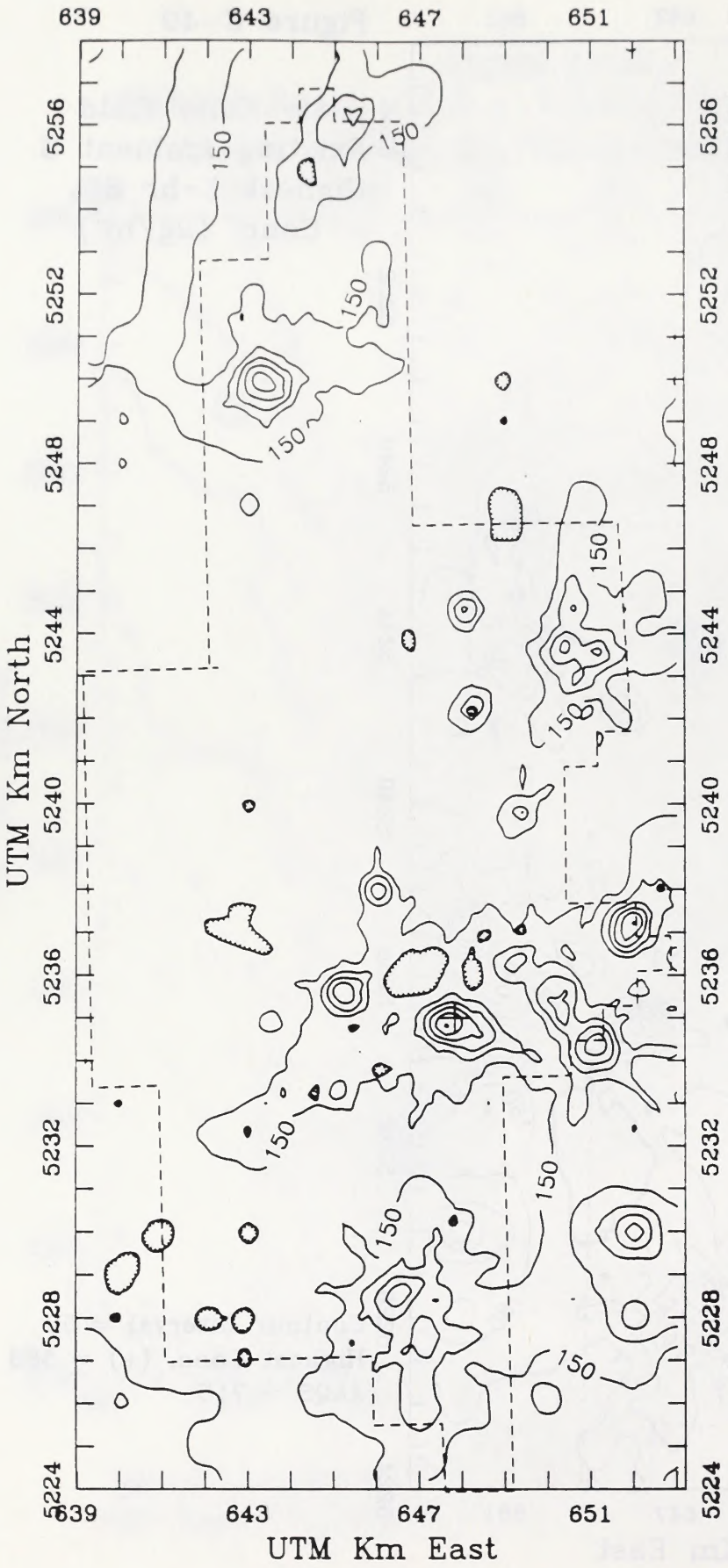


Figure C-49

Little Knife Field
Existing Ambient S.
Highest 1-hr SO_2
Conc. ($\mu g/m^3$)

Contour Interval = 50
Highest Conc. (+) = 588
AAQS = 715

Figure C-50

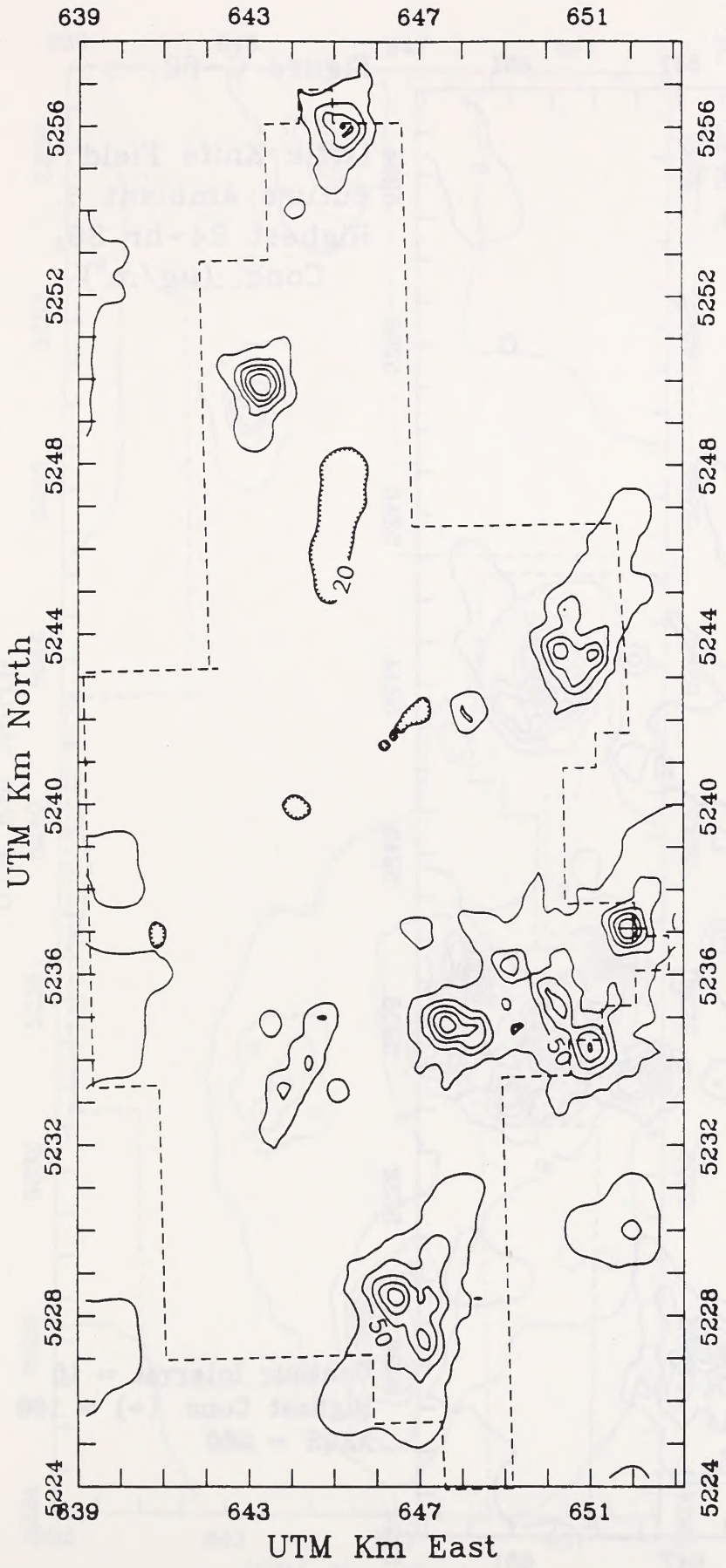


Little Knife Field
Future Ambient S.
Highest 1-hr SO_2
Conc. ($\mu g/m^3$)

Contour Interval = 50
Highest Conc. (+) = 590
AAQS = 715

Figure C-51

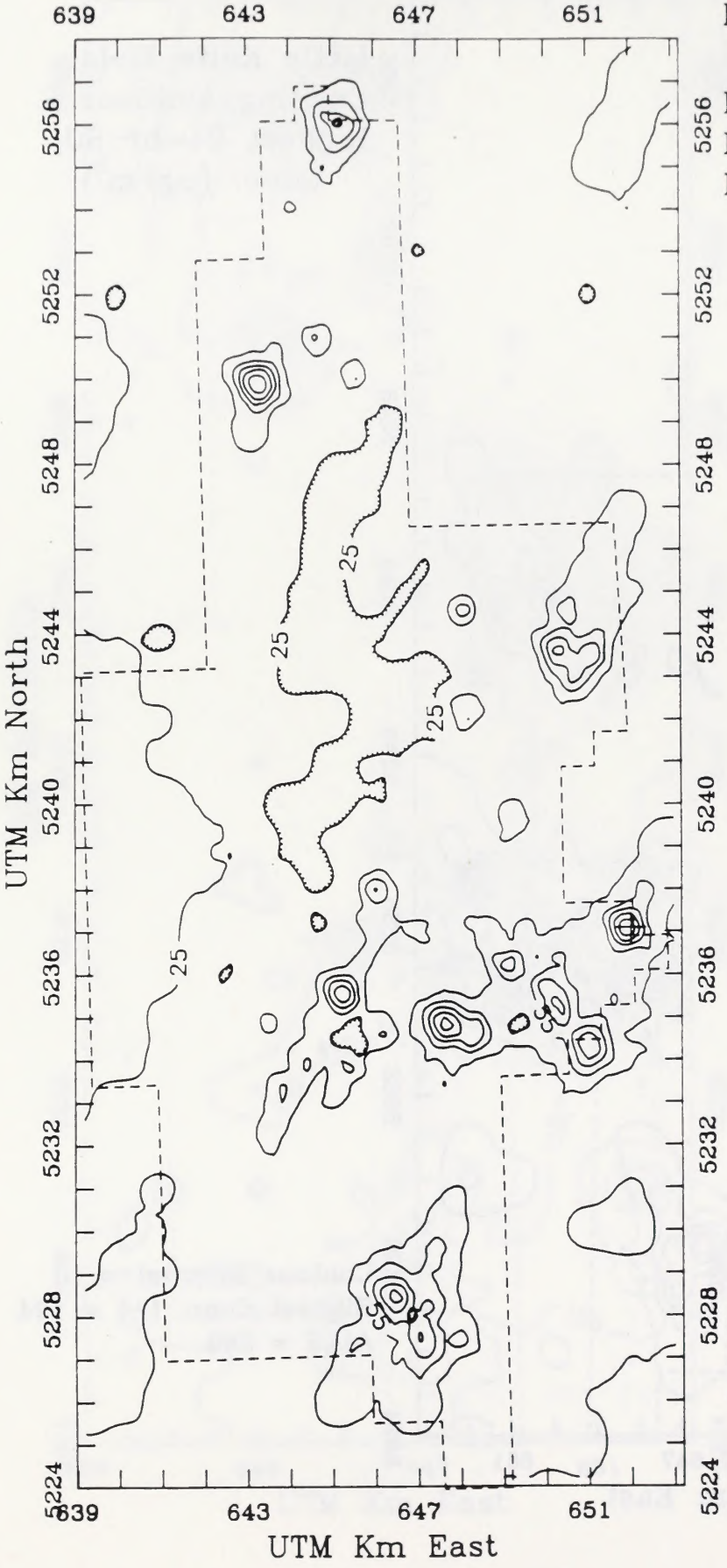
Little Knife Field
Existing Ambient S.
Highest 24-hr SO_2
Conc. ($\mu g/m^3$)



Contour Interval = 15
Highest Conc. (+) = 194
AAQS = 260

Figure C-52

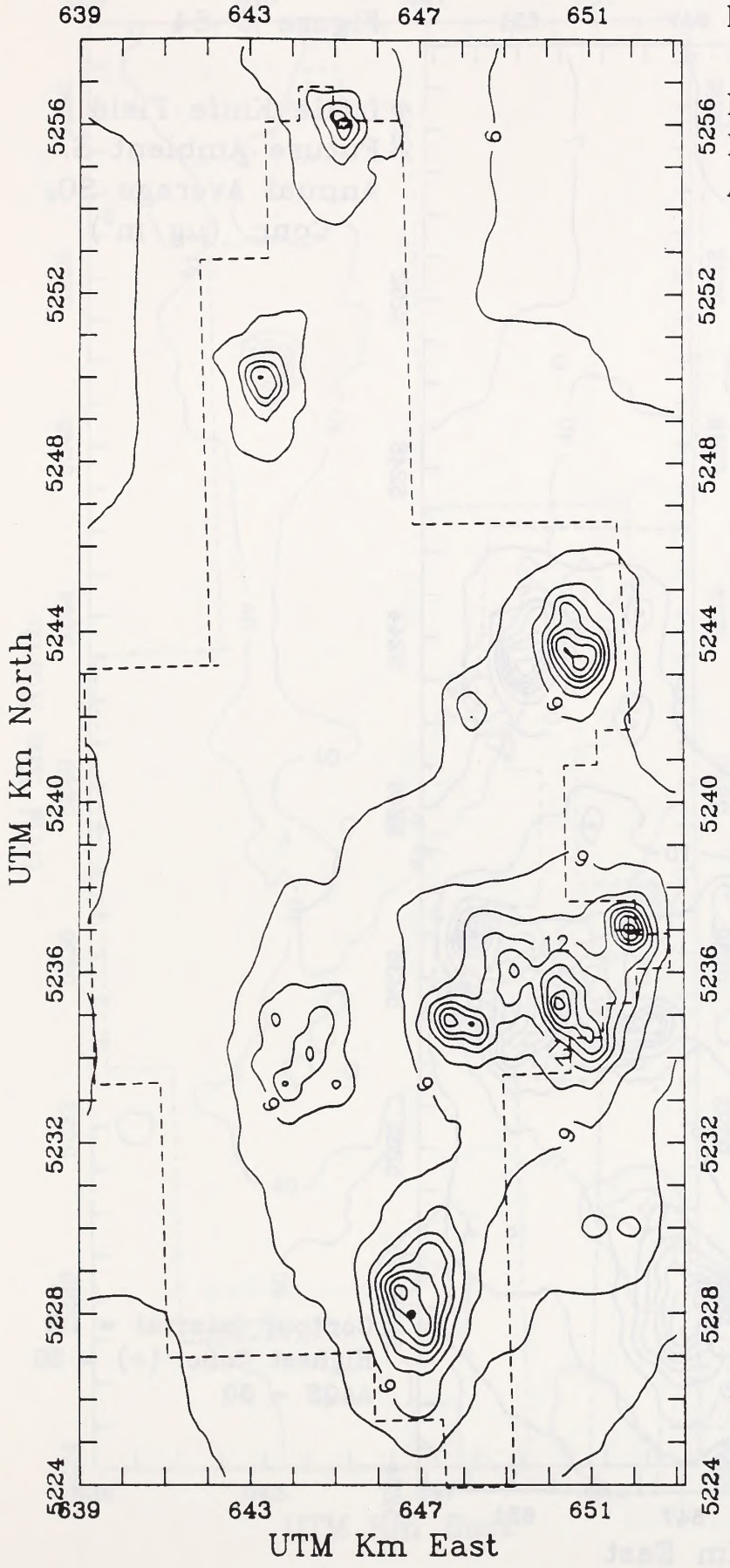
Little Knife Field
Future Ambient S.
Highest 24-hr SO_2
Conc. ($\mu g/m^3$)



Contour Interval = 15
Highest Conc. (+) = 196
AAQS = 260

Figure C-53

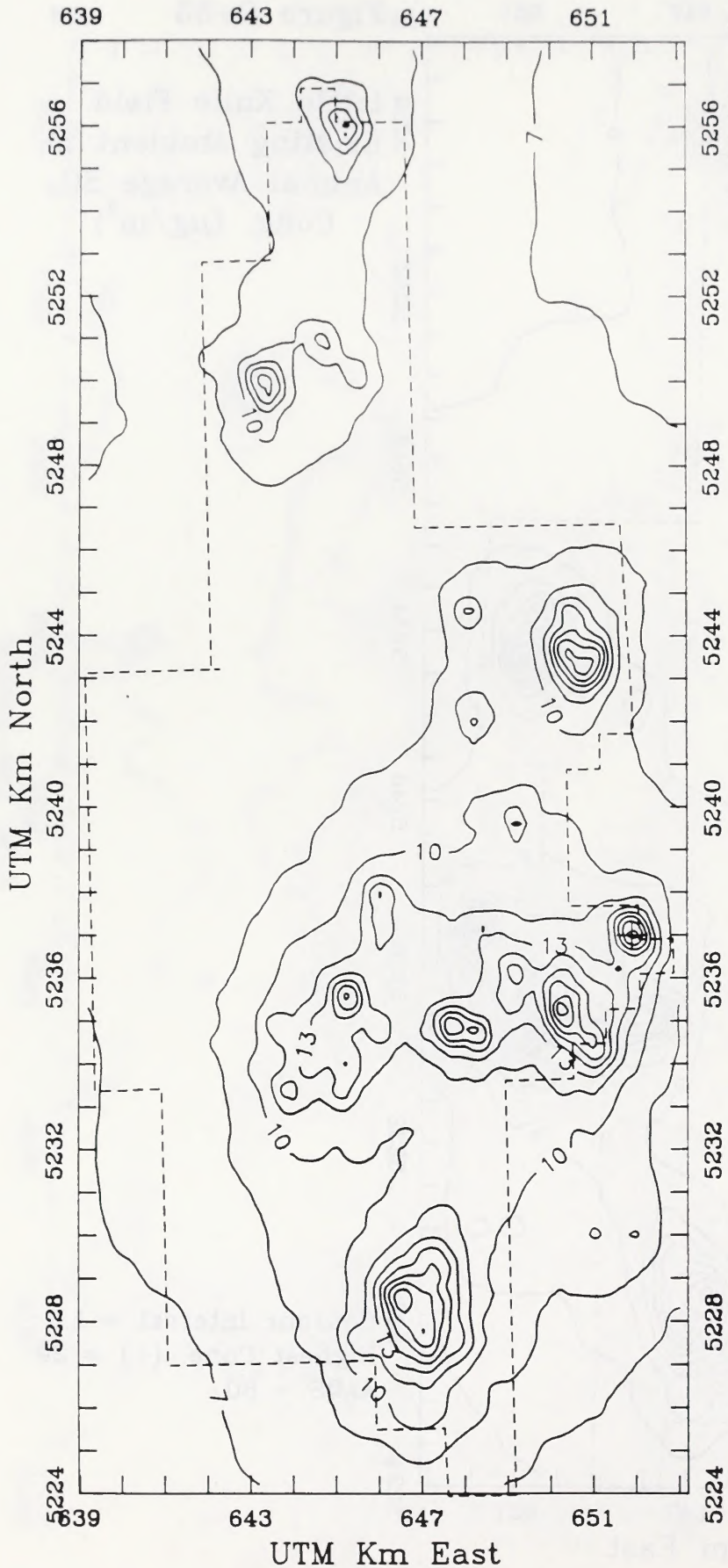
Little Knife Field
Existing Ambient S.
Annual Average SO_2
Conc. ($\mu g/m^3$)



Contour Interval = 1.5
Highest Conc. (+) = 29
AAQS = 60

Figure C-54

Little Knife Field
Future Ambient S.
Annual Average SO_2
Conc. ($\mu g/m^3$)



Contour Interval = 1.5
Highest Conc. (+) = 30
AAQS = 60

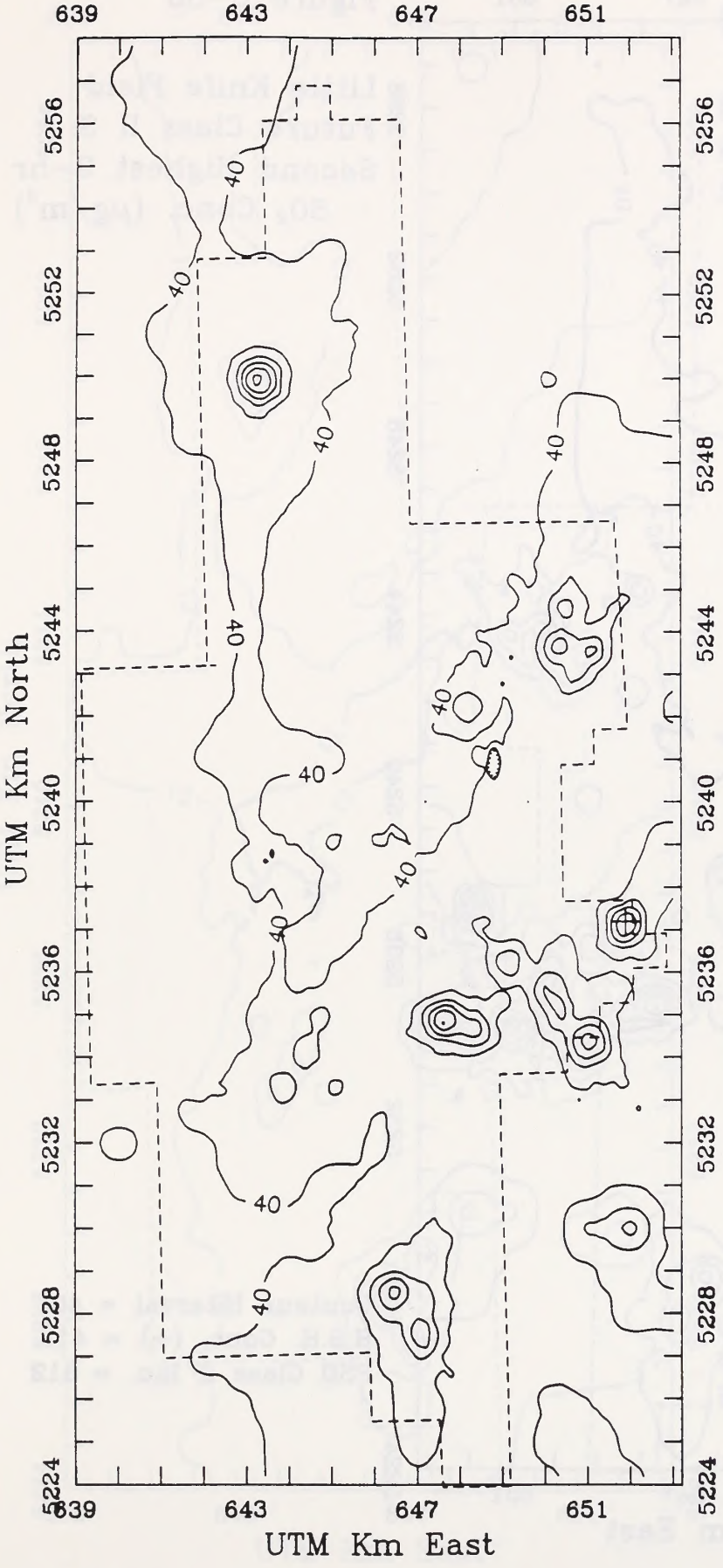


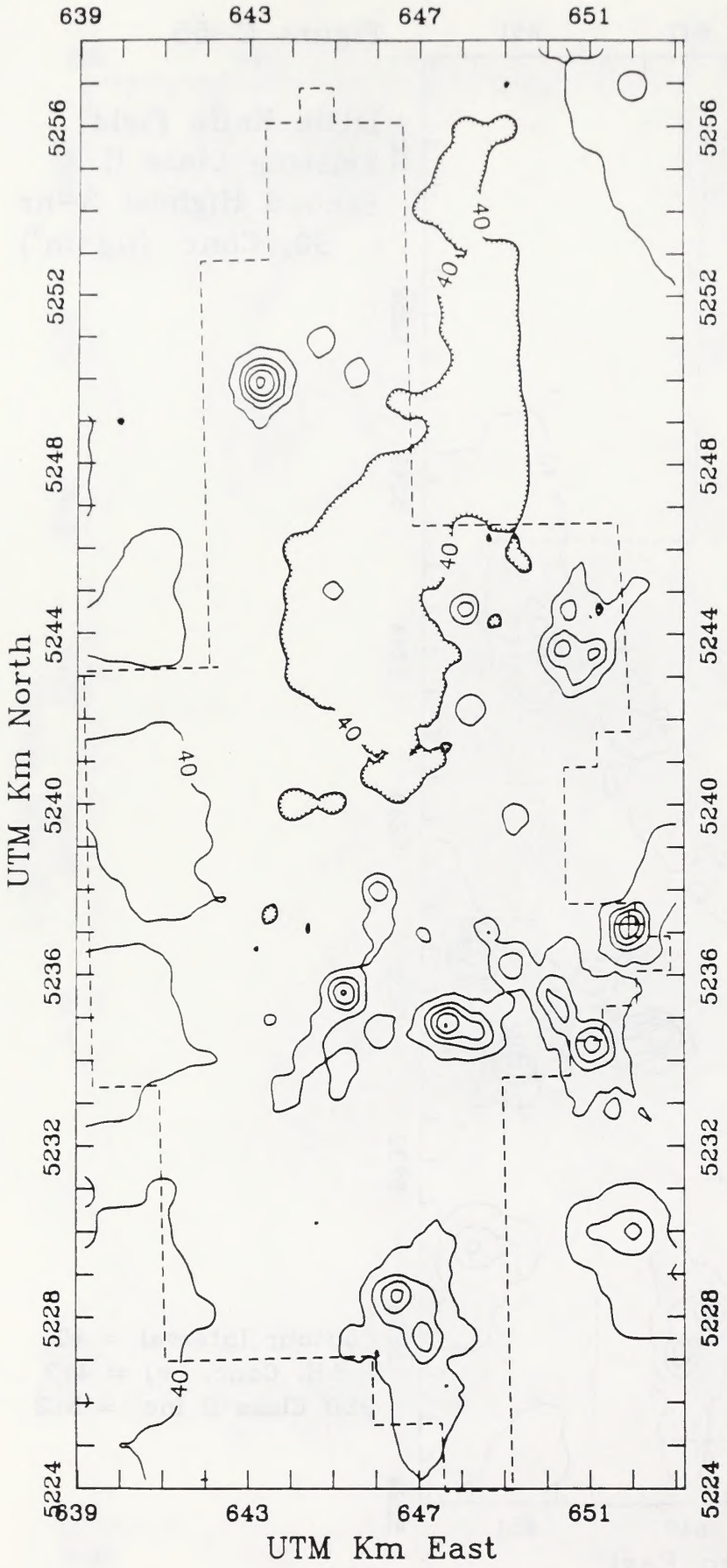
Figure C-55

Little Knife Field
Existing Class II S.
Second Highest 3-hr
SO_2 Conc. ($\mu g/m^3$)

Contour Interval = 40
H.S.H. Conc. (+) = 413
PSD Class II Inc. = 512

Figure C-56

Little Knife Field
Future Class II S.
Second Highest 3-hr
SO_2 Conc. ($\mu g/m^3$)



Contour Interval = 40
H.S.H. Conc. (+) = 413
PSD Class II Inc. = 512

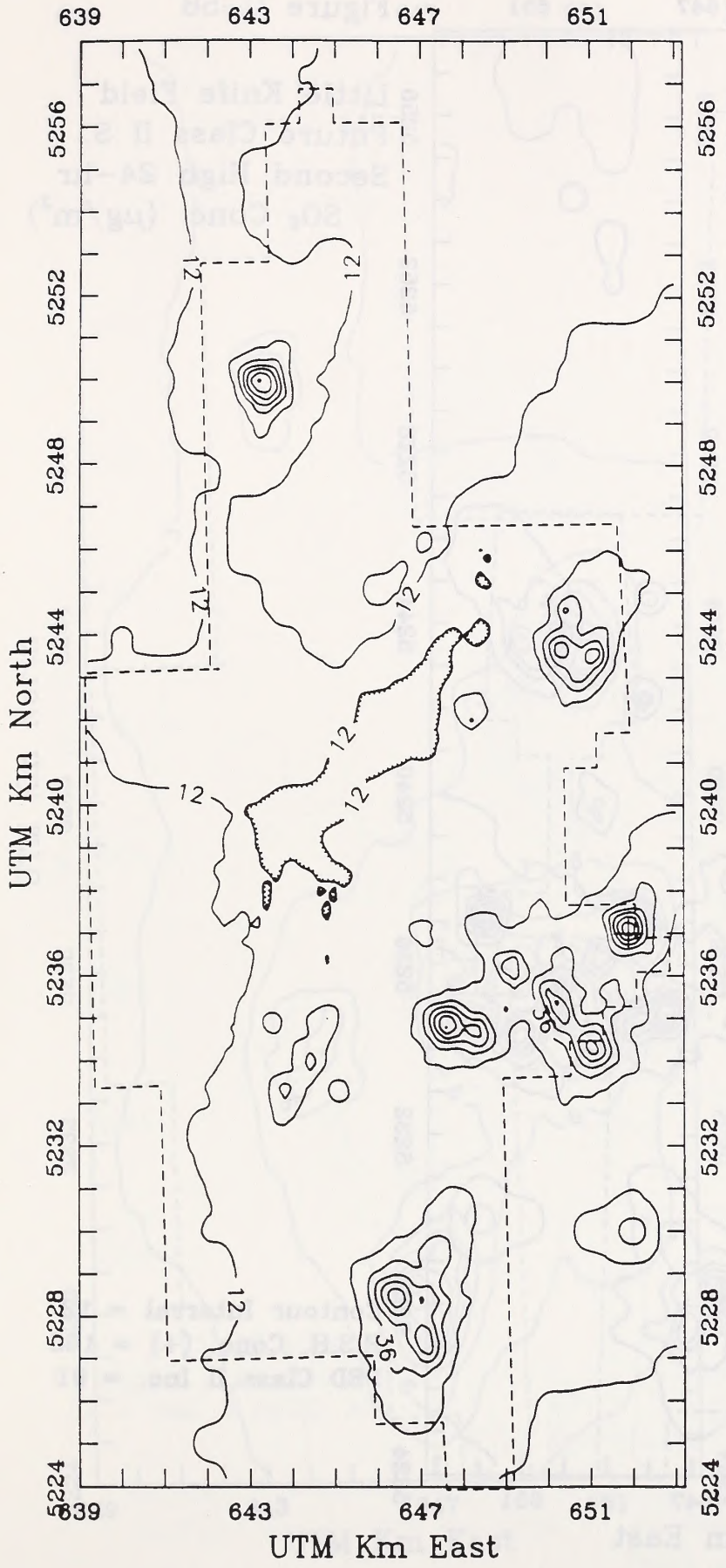
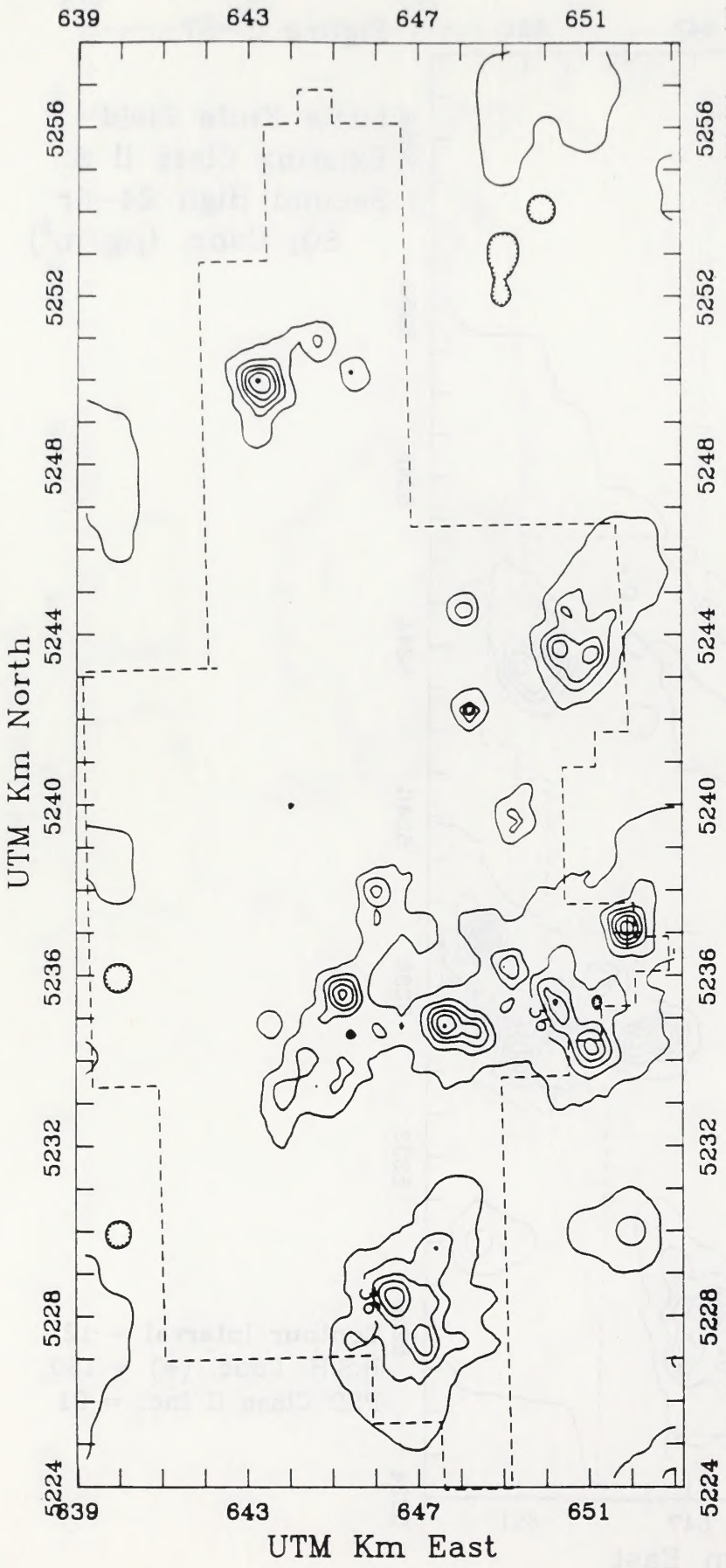


Figure C-57

Little Knife Field
Existing Class II S.
Second High 24-hr
SO_2 Conc. ($\mu g/m^3$)

Contour Interval = 12
H.S.H. Conc. (+) = 160
PSD Class II Inc. = 91

Figure C-58



Little Knife Field
Future Class II S.
Second High 24-hr
SO_2 Conc. ($\mu g/m^3$)

Contour Interval = 12
H.S.H. Conc. (+) = 160
PSD Class II Inc. = 91

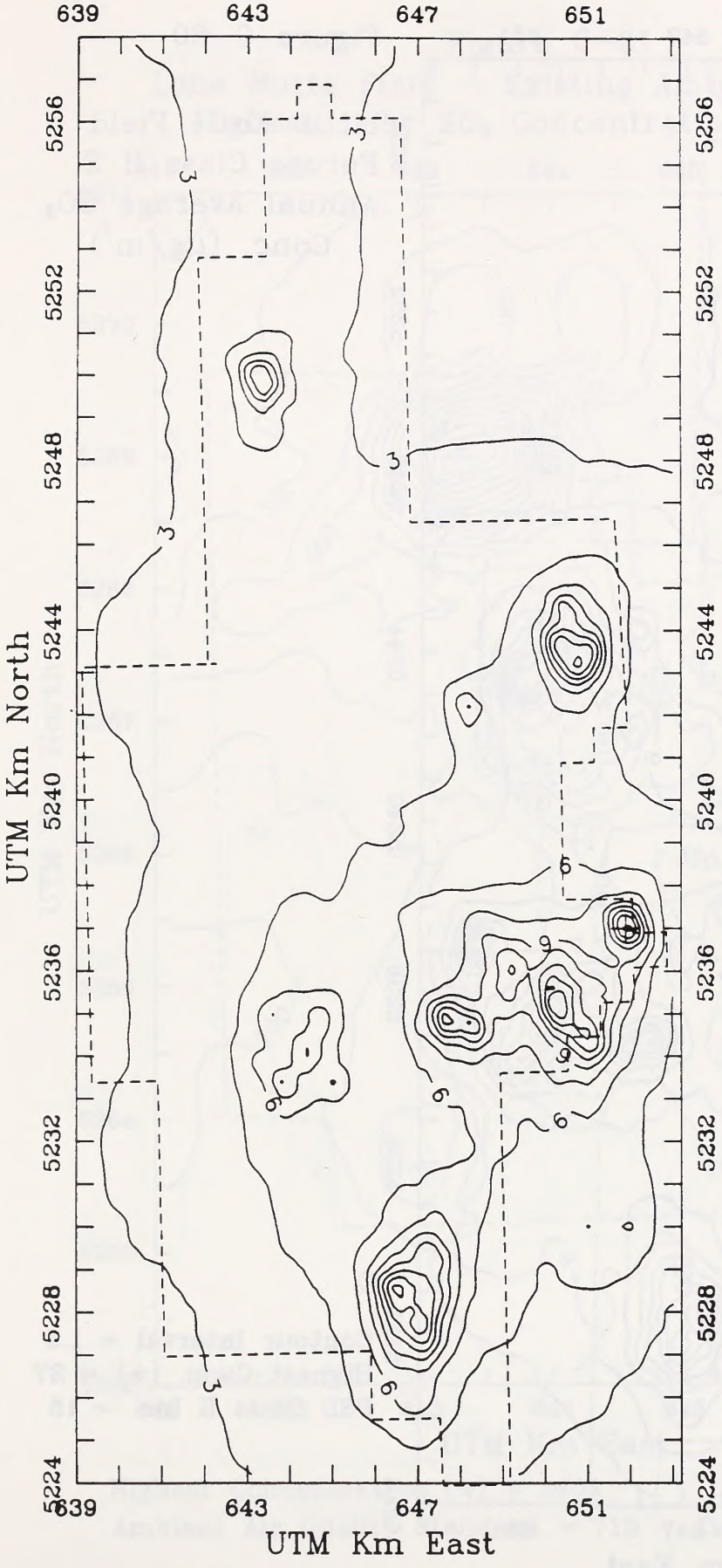


Figure C-59

Little Knife Field
Existing Class II S.
Annual Average SO_2
Conc. ($\mu g/m^3$)

Contour Interval = 1.5
Highest Conc. (+) = 26
PSD Class II Inc. = 15

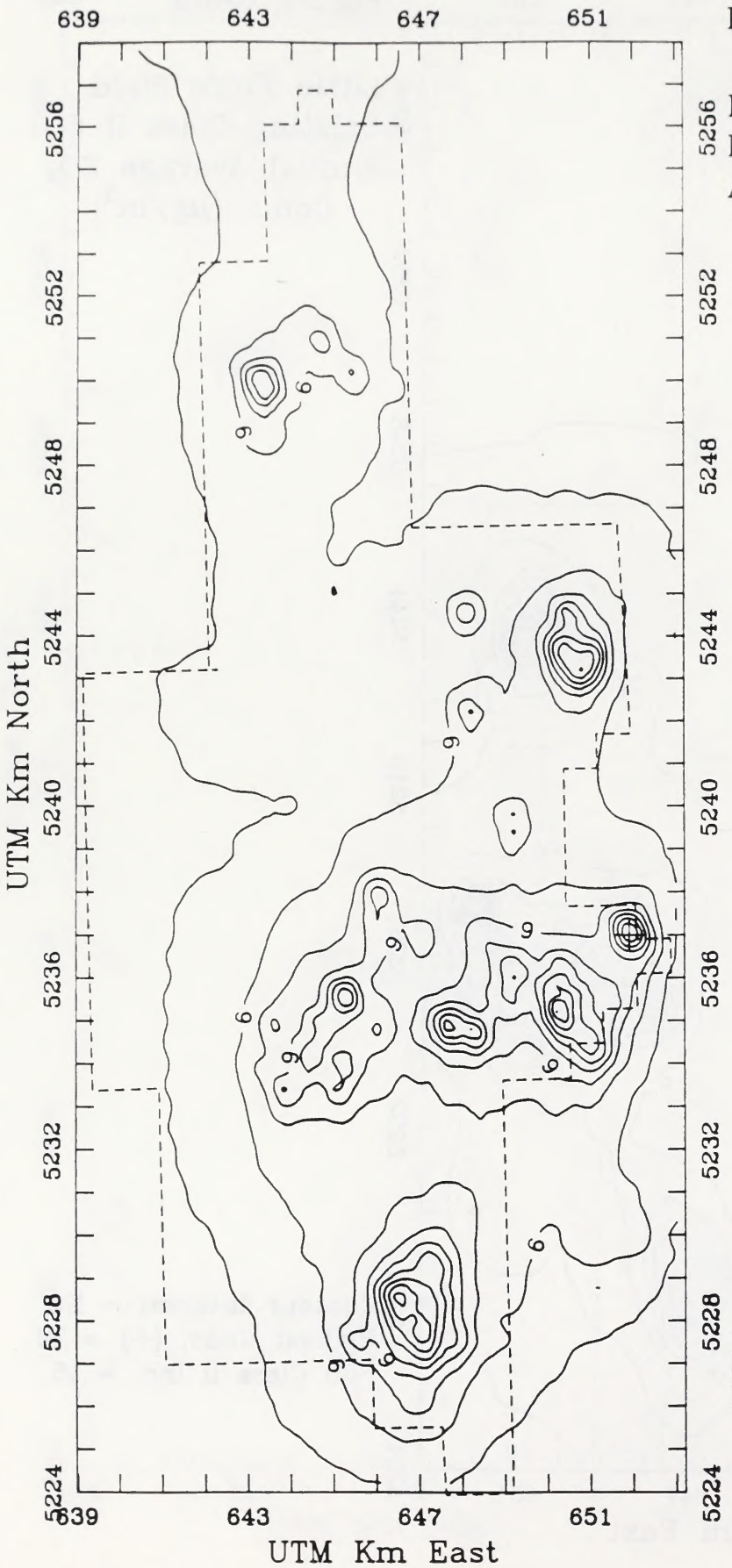


Figure C–60

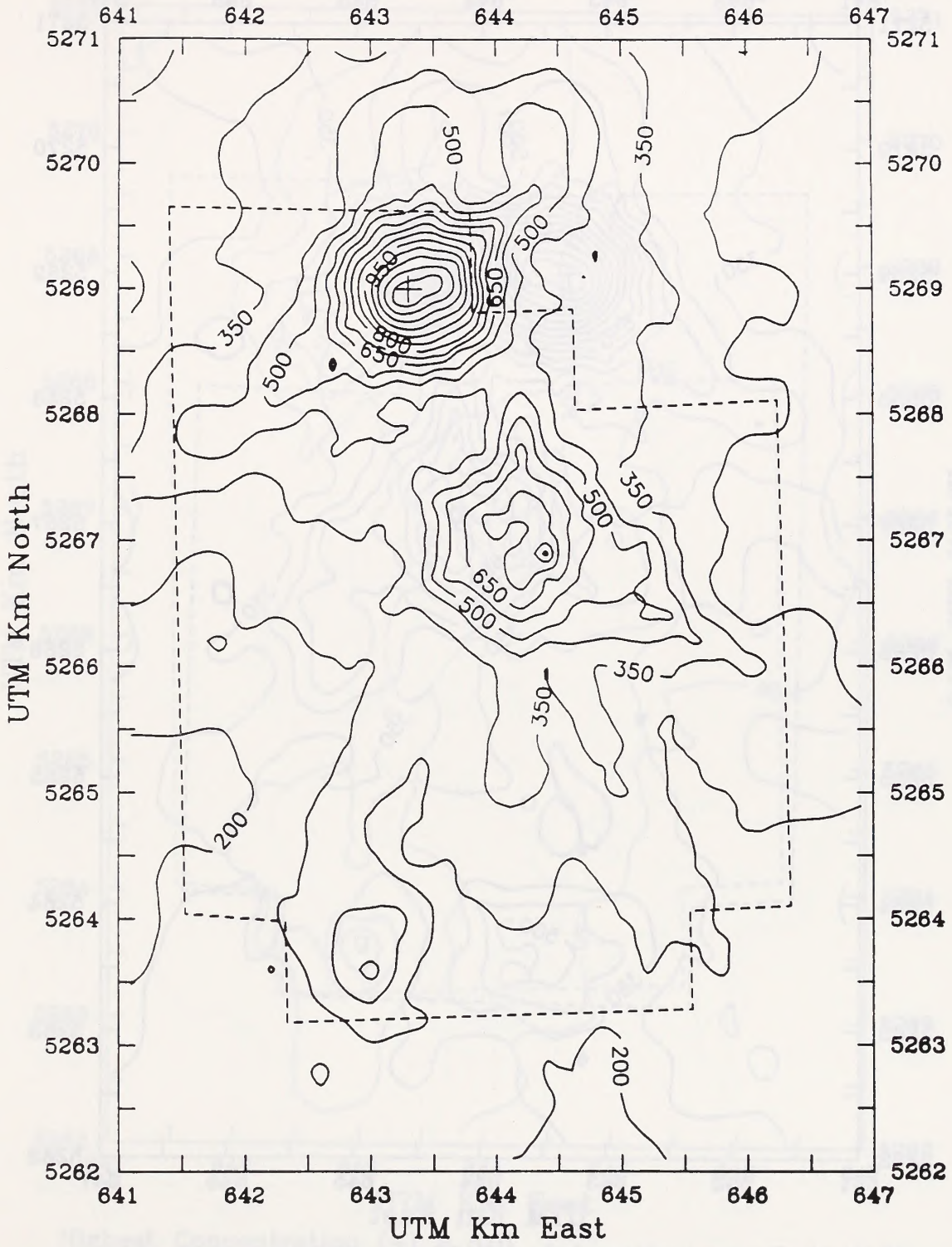
Little Knife Field
Future Class II S.
Annual Average SO_2
Conc. ($\mu g/m^3$)

Contour Interval = 1.5
Highest Conc. (+) = 27
PSD Class II Inc. = 15

Figure C-61

Lone Butte Field - Existing Ambient Scenario

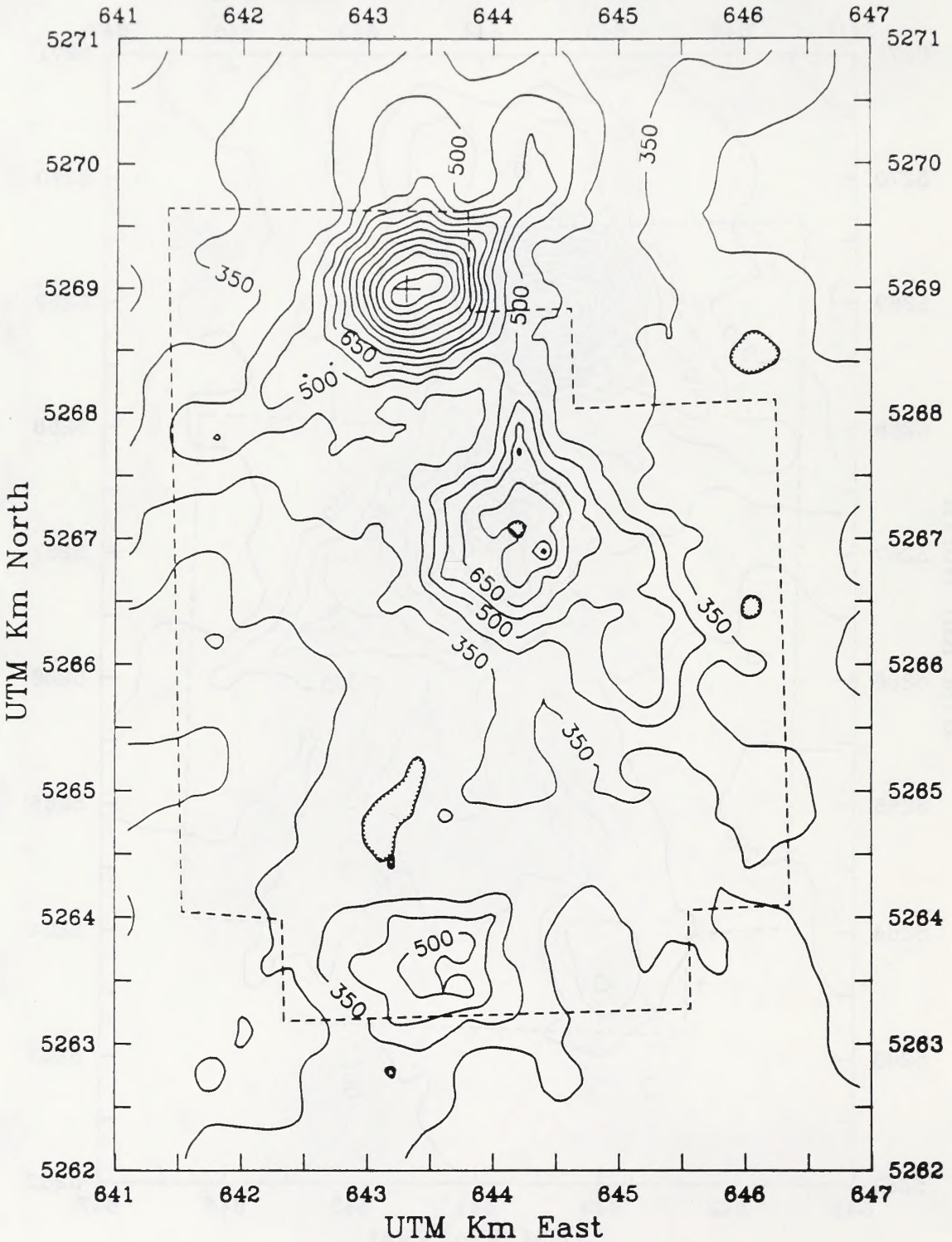
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



Highest Concentration (+) = 1404

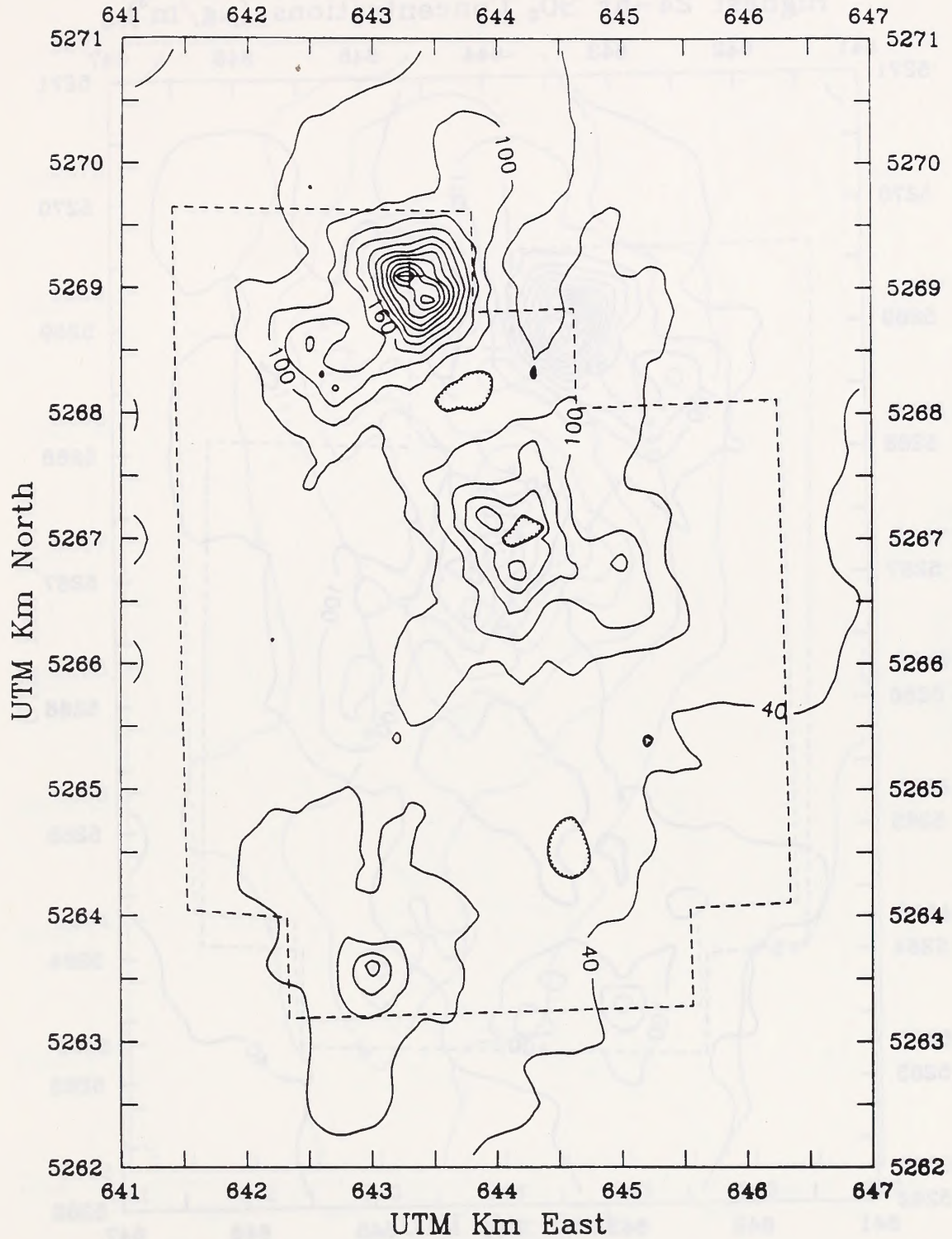
Ambient Air Quality Standard = 715 Contour Interval = 75

Figure C-62
Lone Butte Field - Future Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



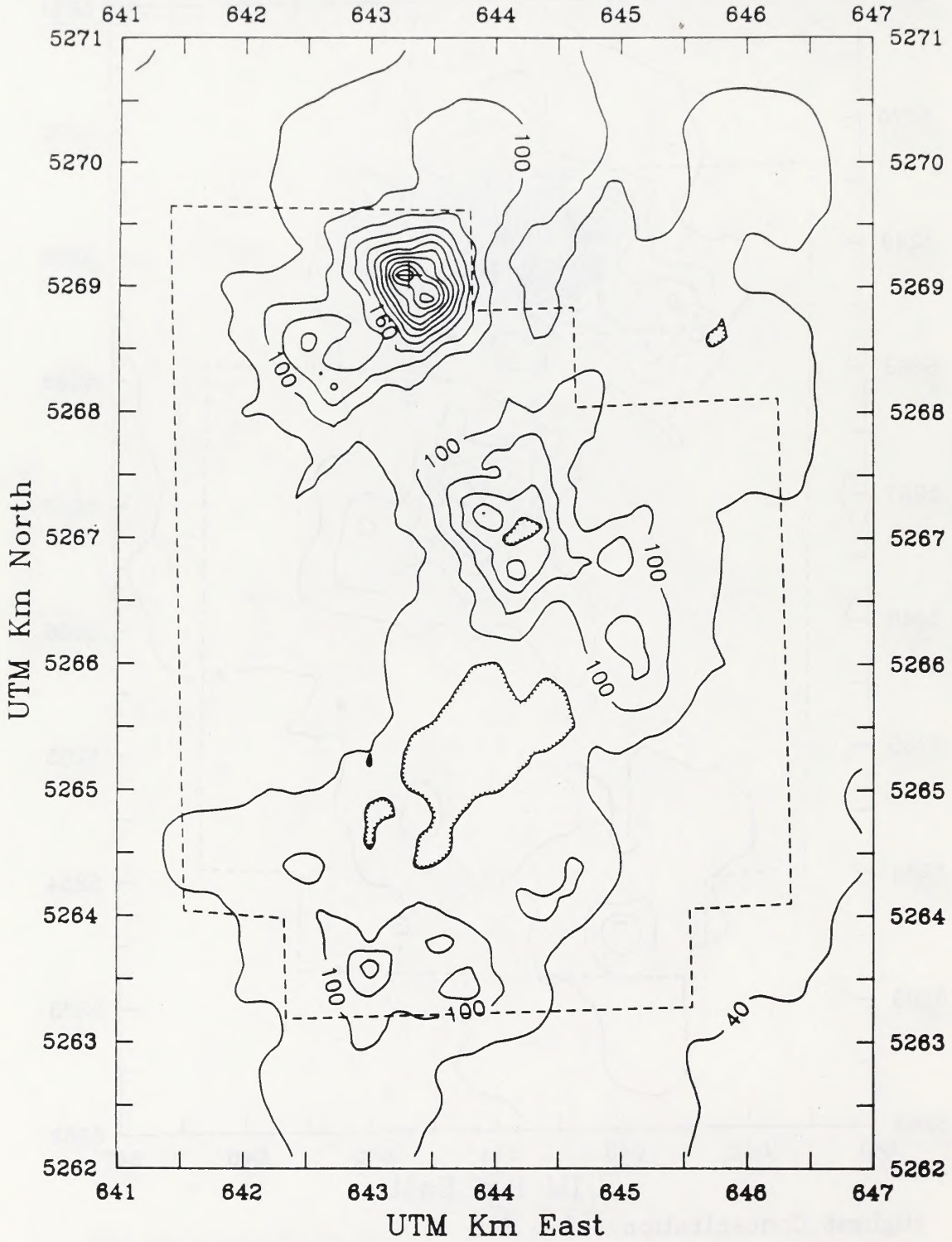
Highest Concentration (+) = 1405
Ambient Air Quality Standard = 715 Contour Interval = 75

Figure C-63
Lone Butte Field - Existing Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



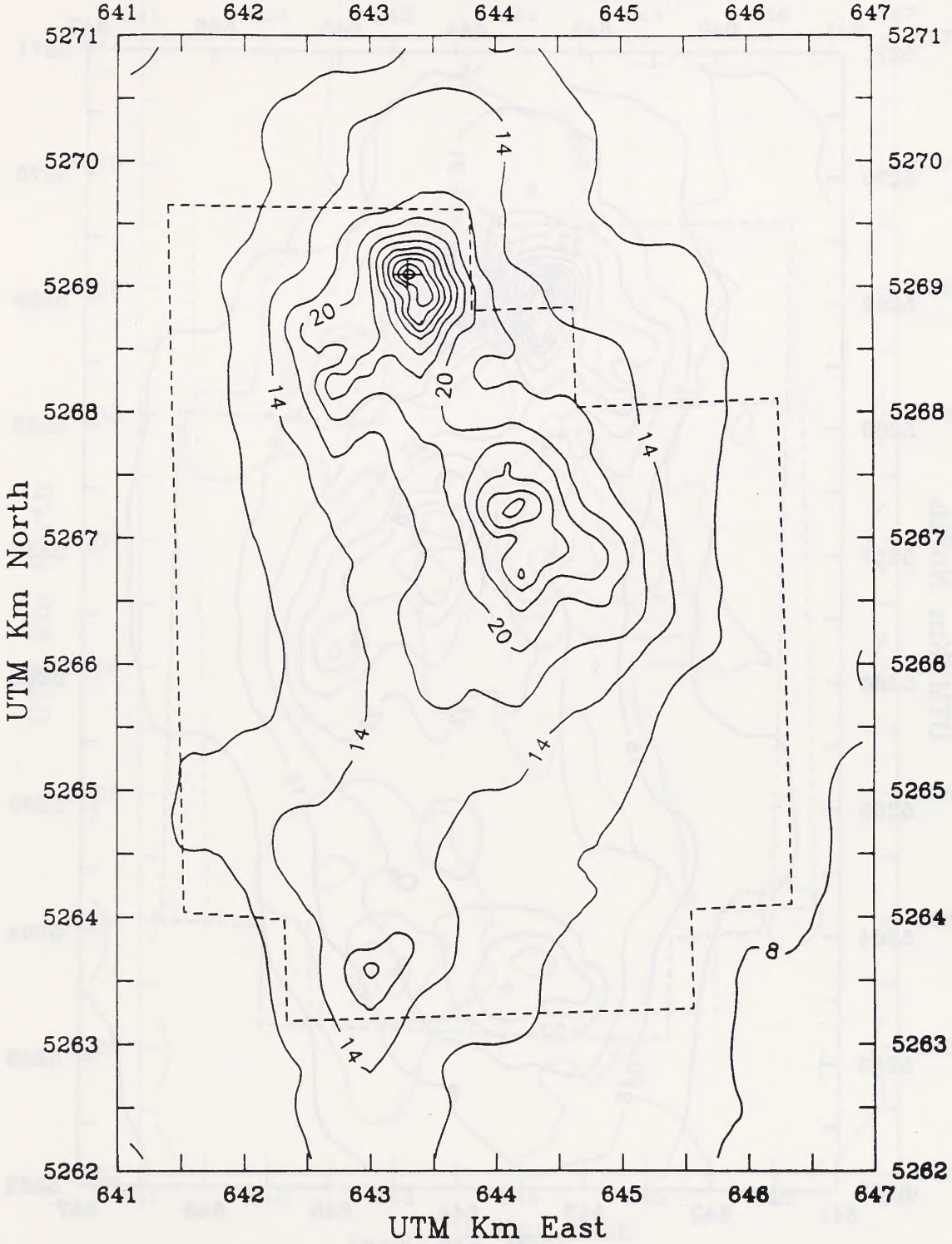
Highest Concentration (+) = 510
Ambient Air Quality Standard = 260 Contour Interval = 30

Figure C-64
Lone Butte Field - Future Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



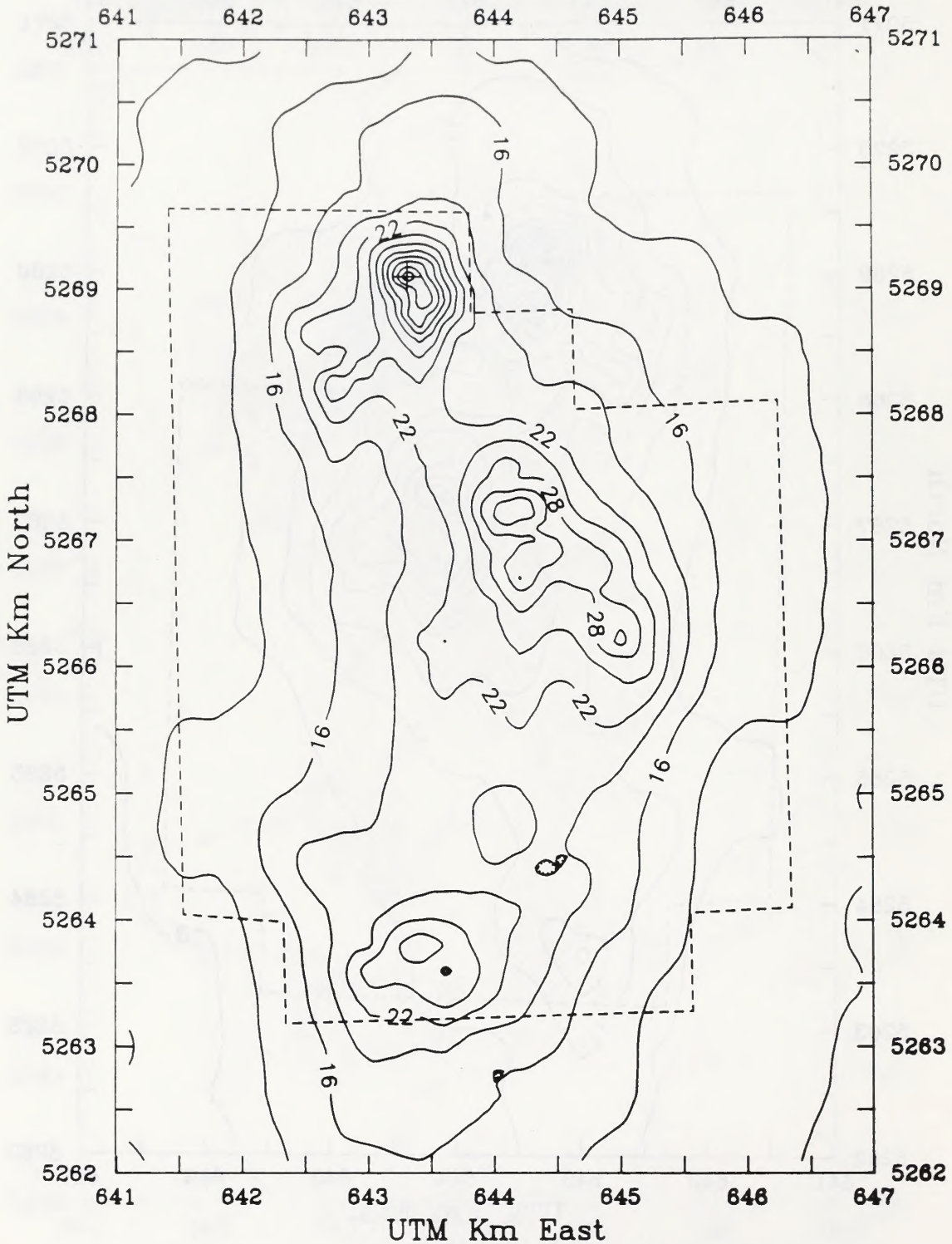
Highest Concentration (+) = 512
Ambient Air Quality Standard = 260 Contour Interval = 30

Figure C-65
Lone Butte Field - Existing Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



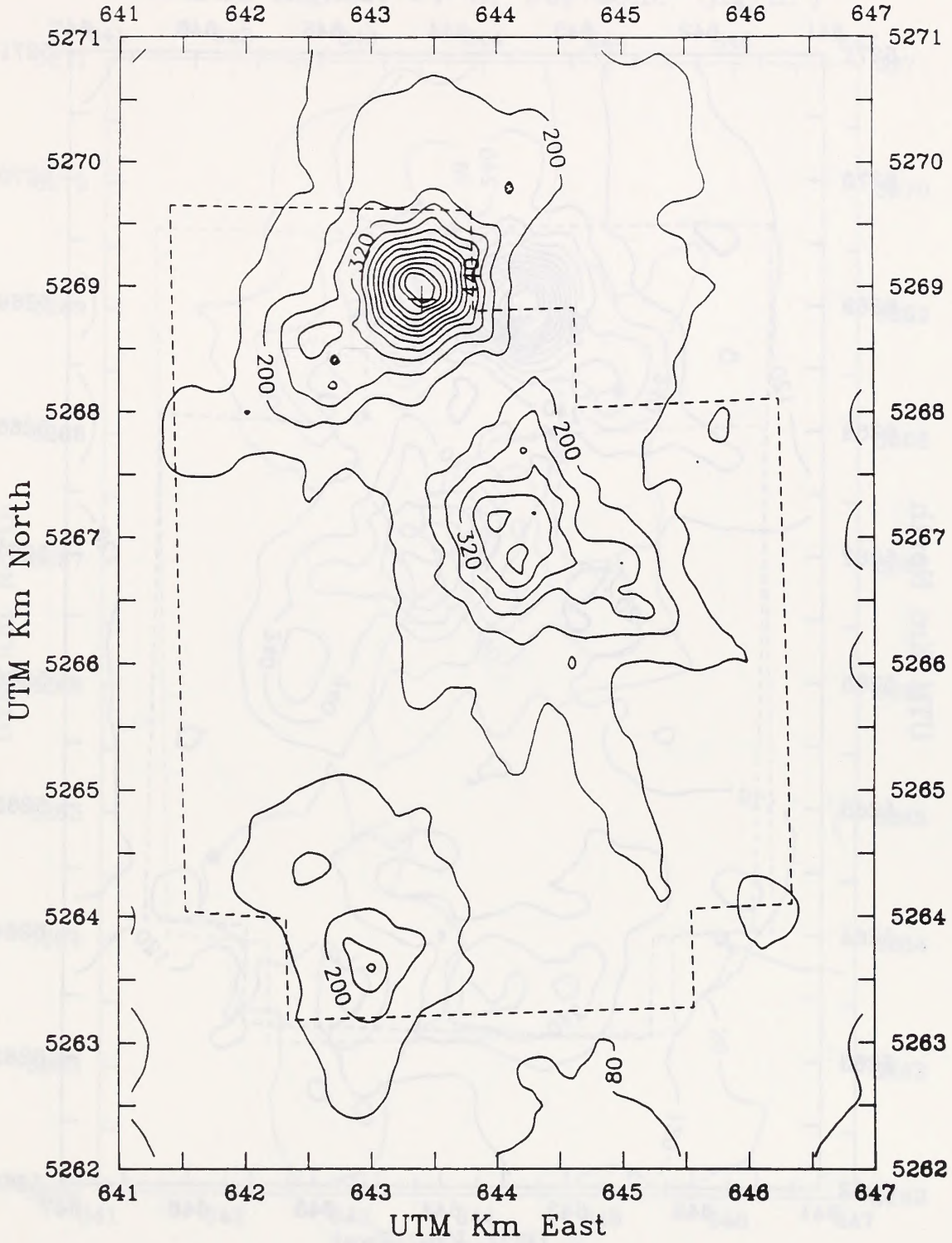
Highest Concentration (+) = 57
Ambient Air Quality Standard = 60 Contour Interval = 3

Figure C-66
Lone Butte Field - Future Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



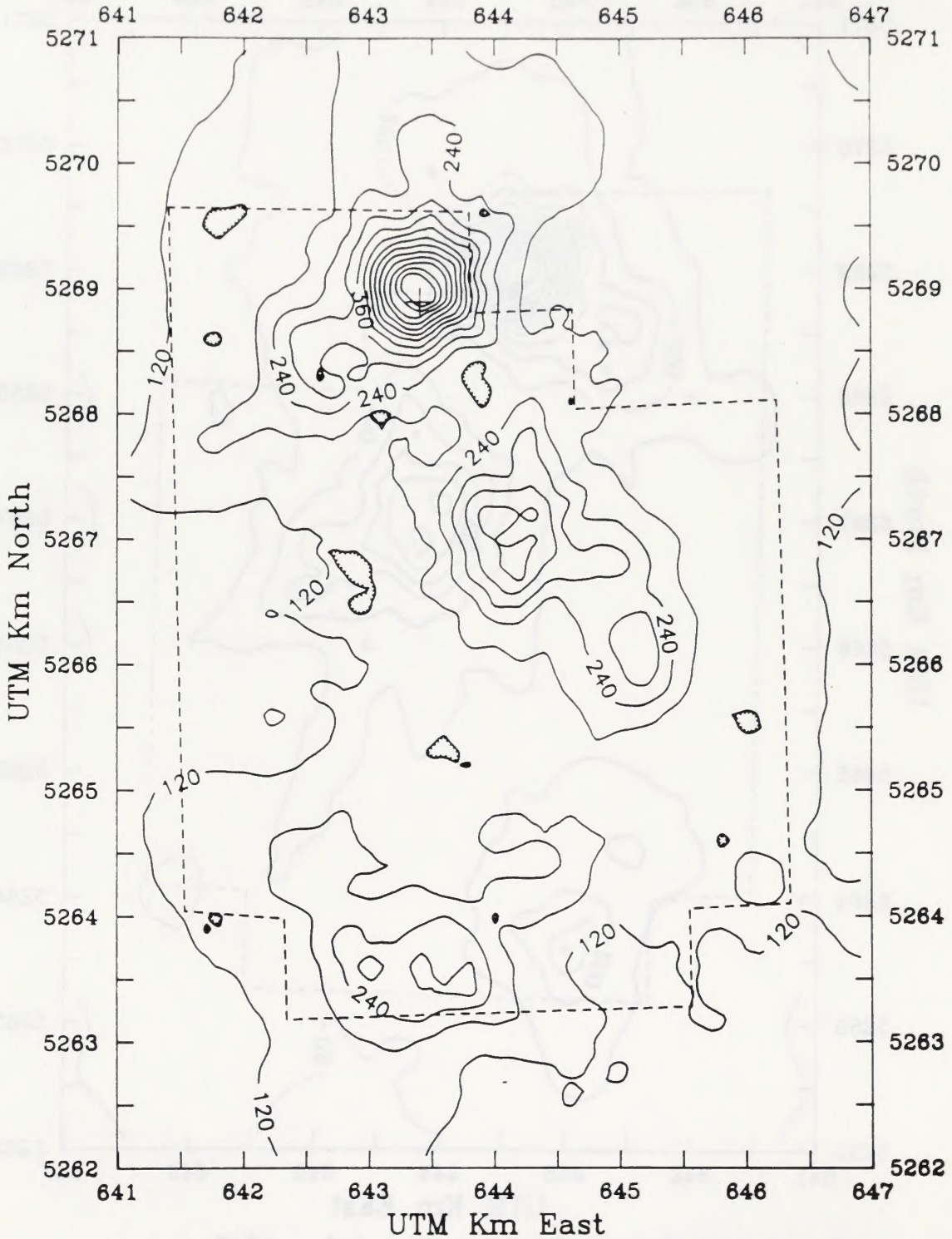
Highest Concentration (+) = 59
Ambient Air Quality Standard = 60 Contour Interval = 3

Figure C-67
Lone Butte Field - Existing PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



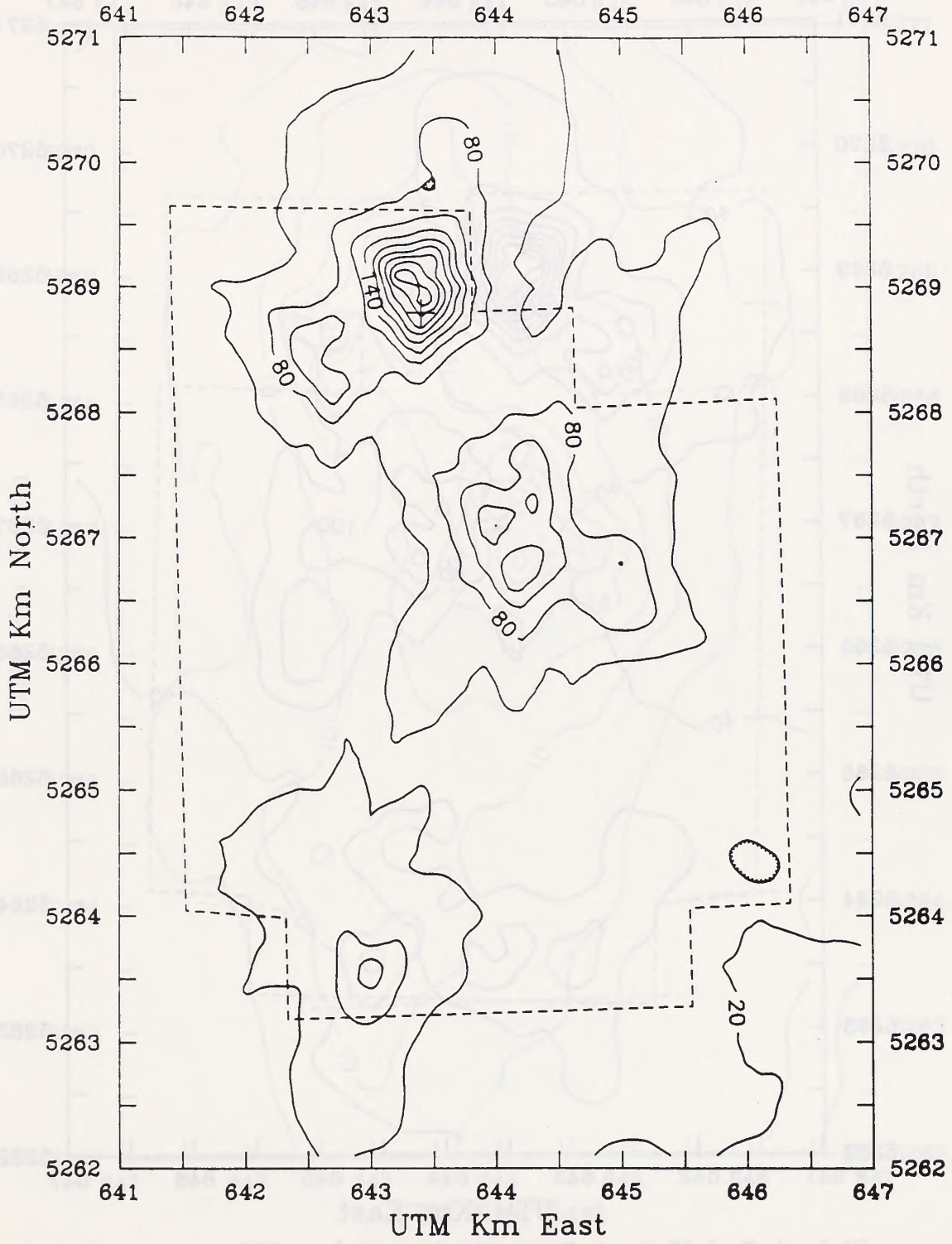
Highest 2nd Highest Concentration (+) = 1019
PSD Class II Increment = 512 Contour Interval = 60

Figure C-68
Lone Butte Field - Future PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



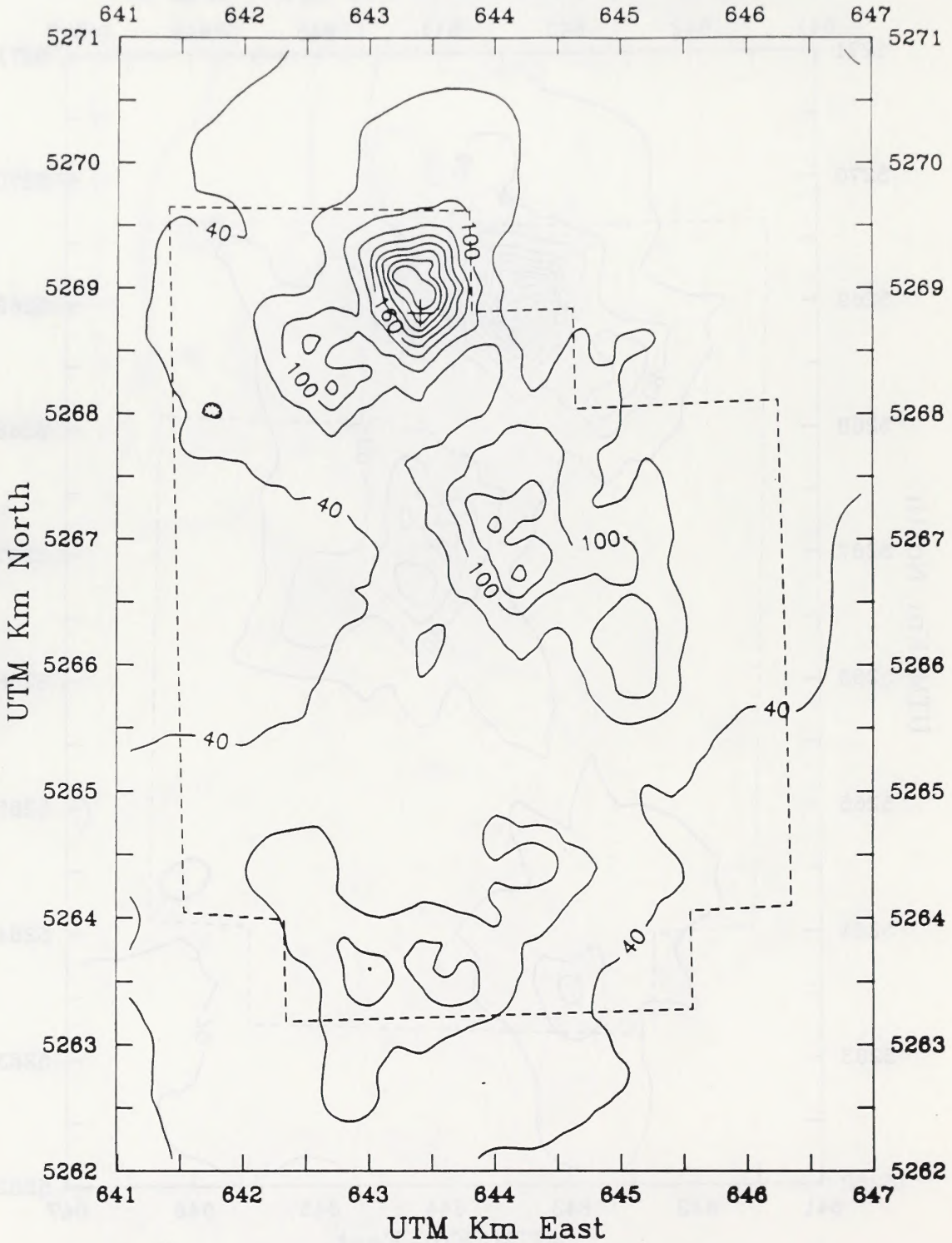
Highest 2nd Highest Concentration (+) = 1019
PSD Class II Increment = 512 Contour Interval = 60

Figure C-69
Lone Butte Field - Existing PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



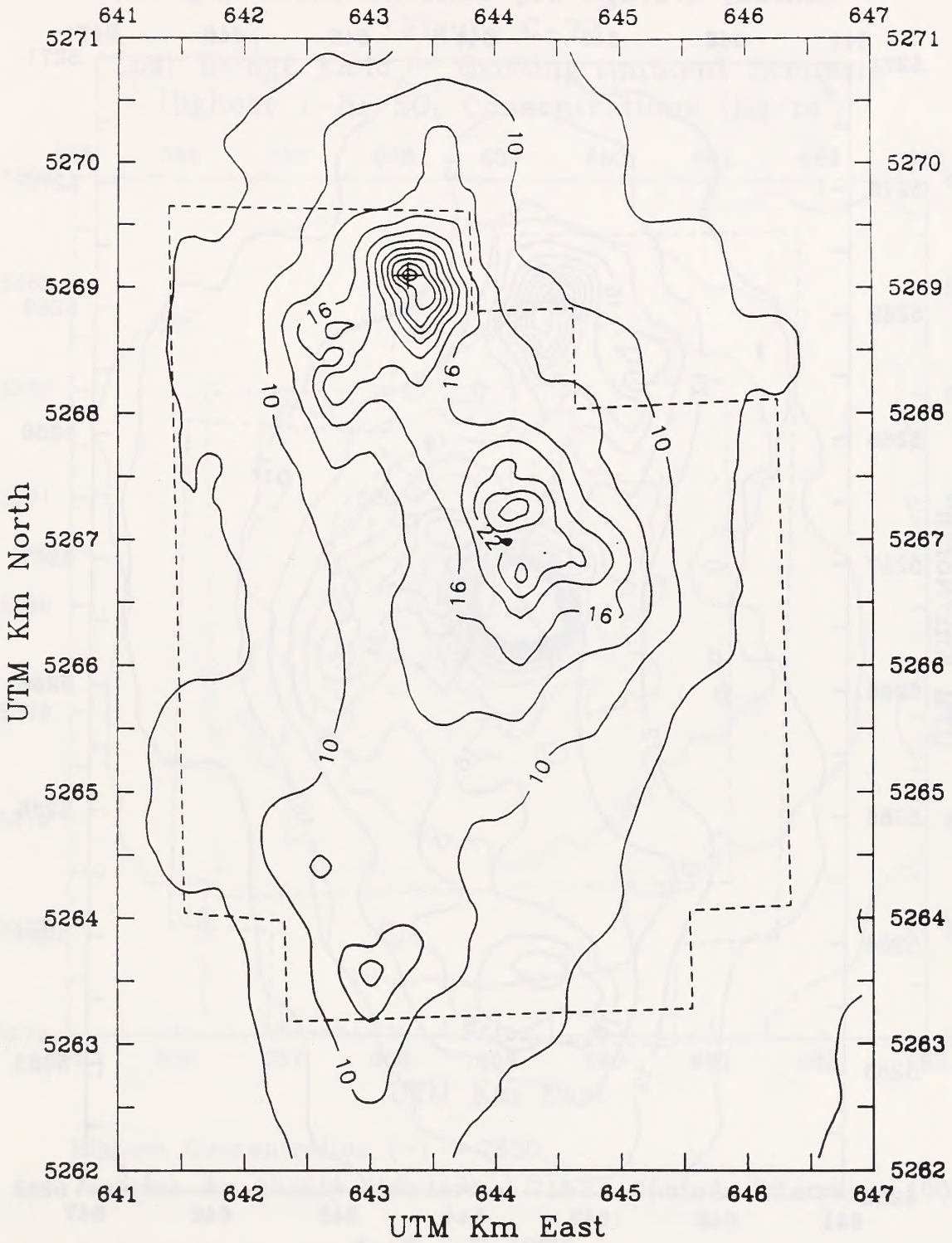
Highest 2nd Highest Concentration (+) = 383
PSD Class II Increment = 91 Contour Interval = 30

Figure C-70
Lone Butte Field - Future PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



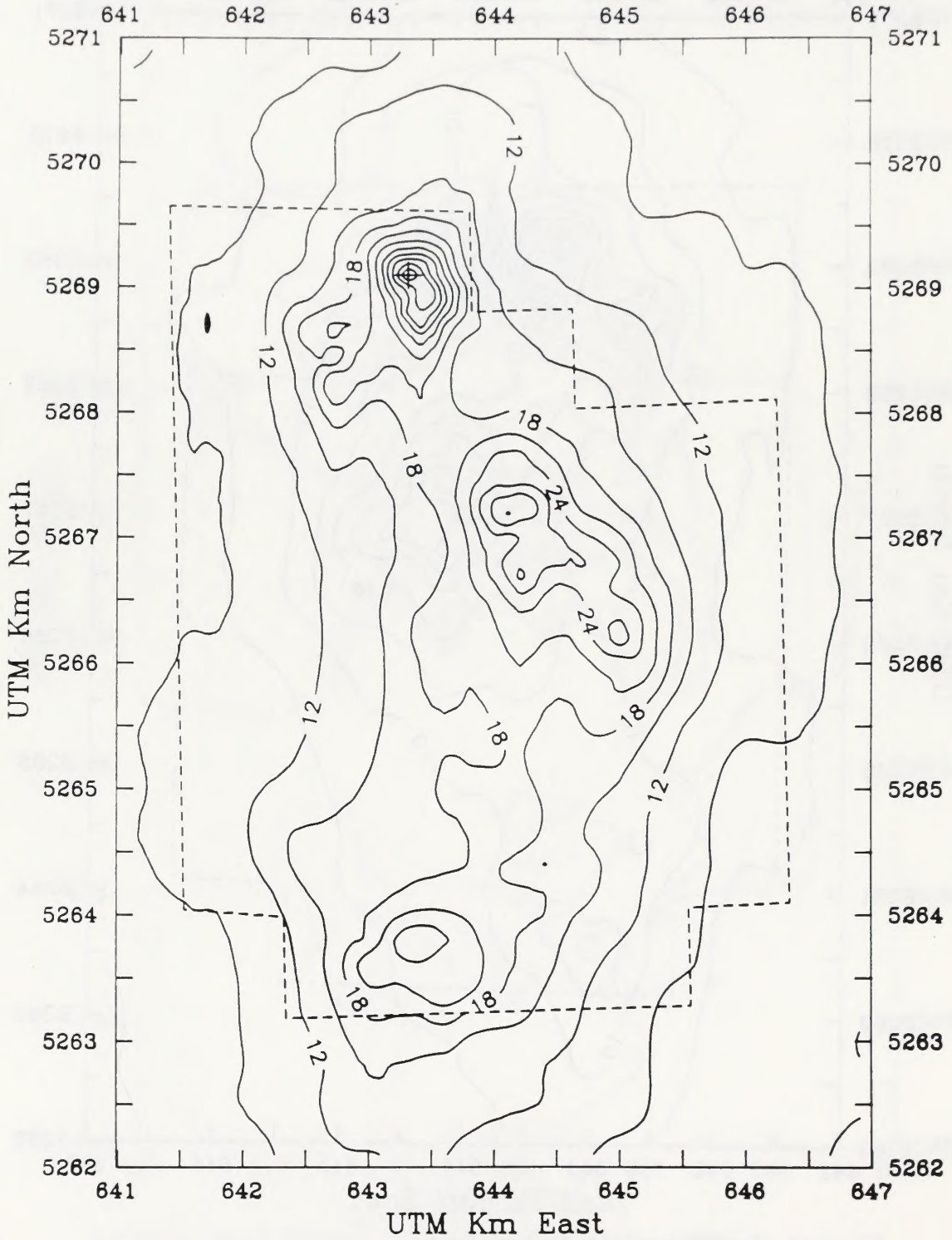
Highest 2nd Highest Concentration (+) = 383
PSD Class II Increment = 91 Contour Interval = 30

Figure C-71
Lone Butte Field - Existing PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



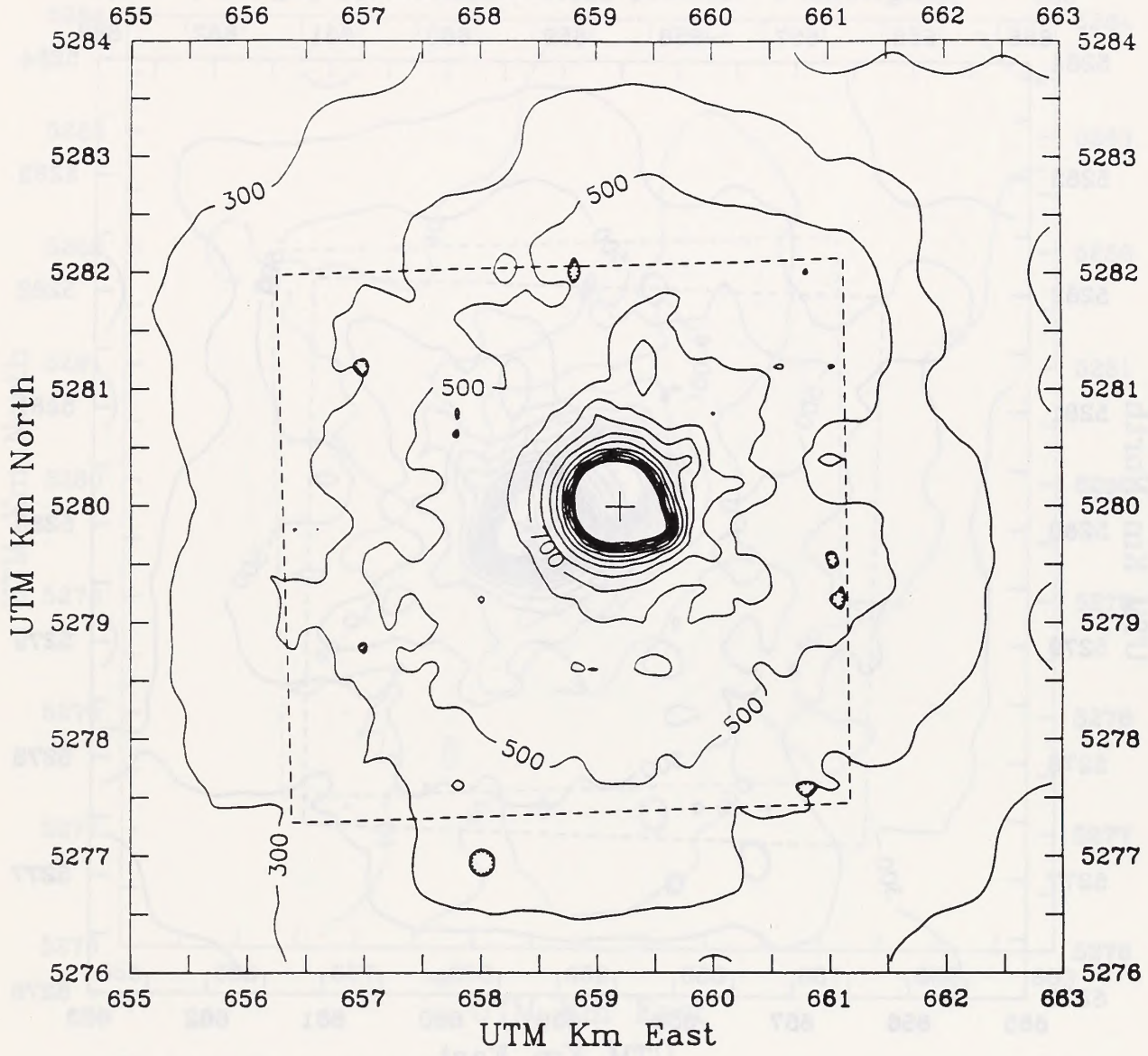
Highest Concentration (+) = 54
PSD Class II Increment = 15 Contour Interval = 3

Figure C-72
Lone Butte Field – Future PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



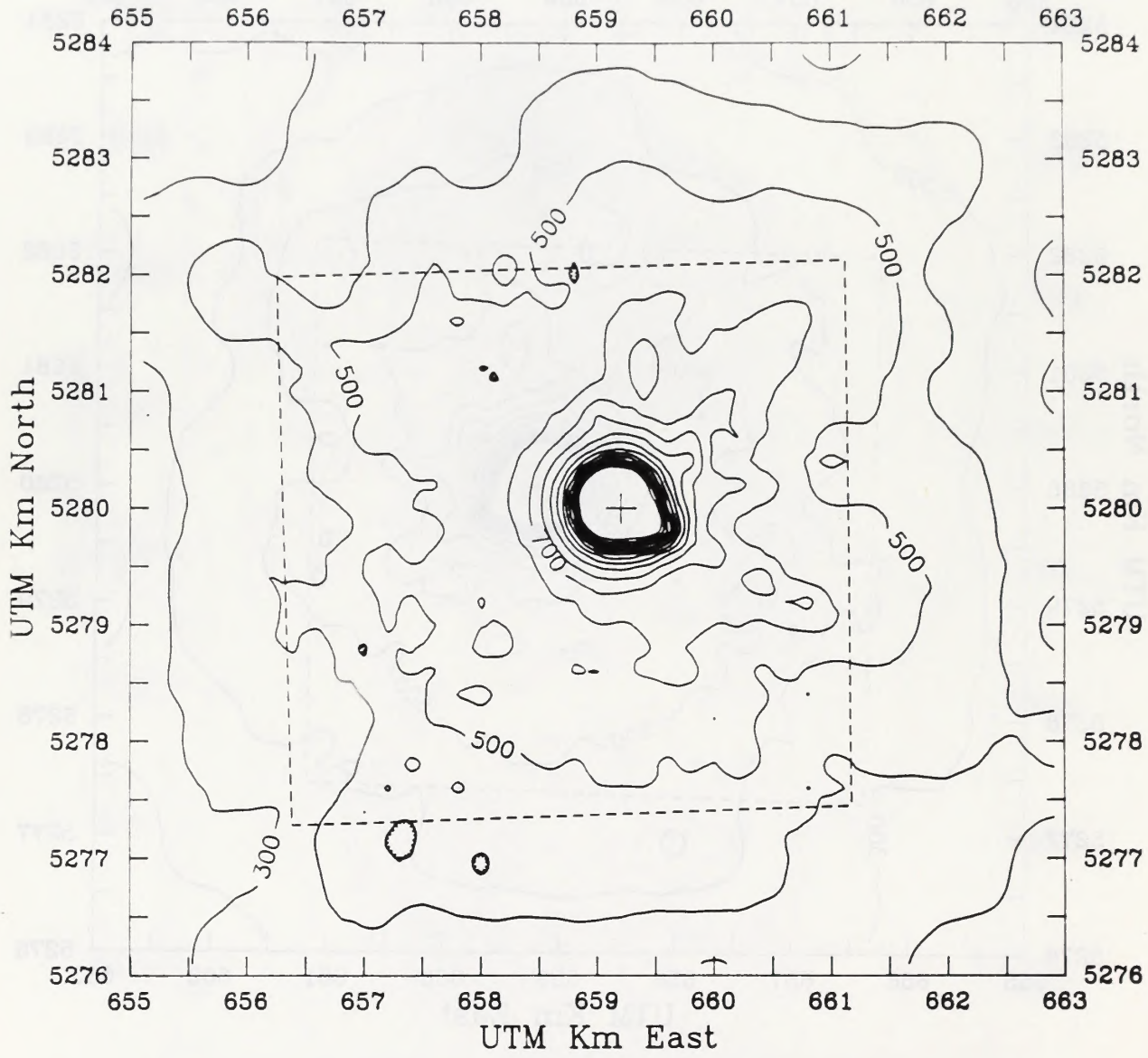
Highest Concentration (+) = 56
PSD Class II Increment = 15 Contour Interval = 3

Figure C-73
Lost Bridge Field – Existing Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



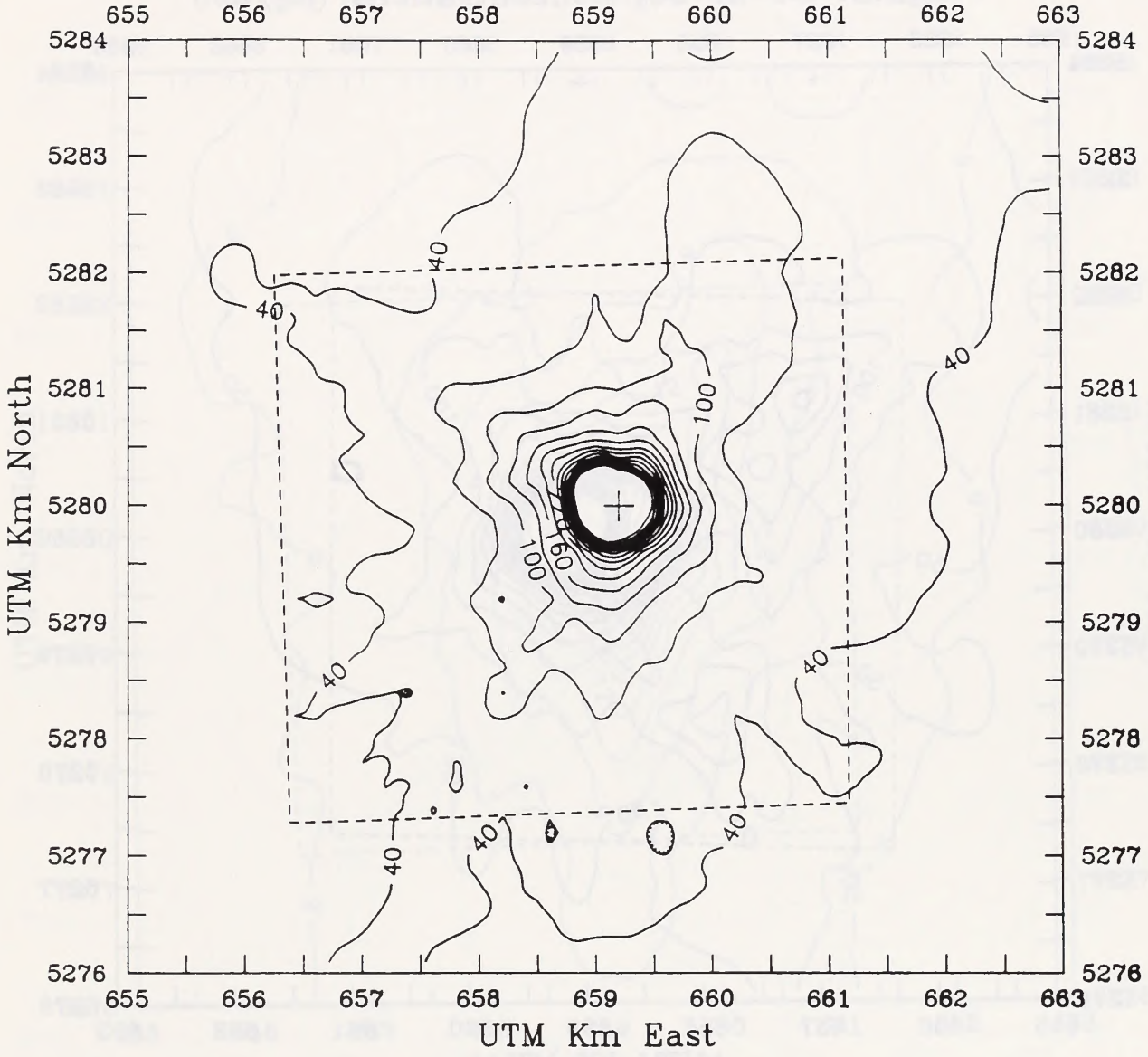
Highest Concentration (+) = 7630
Ambient Air Quality Standard = 715 Contour Interval = 100

Figure C-74
Lost Bridge Field - Future Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



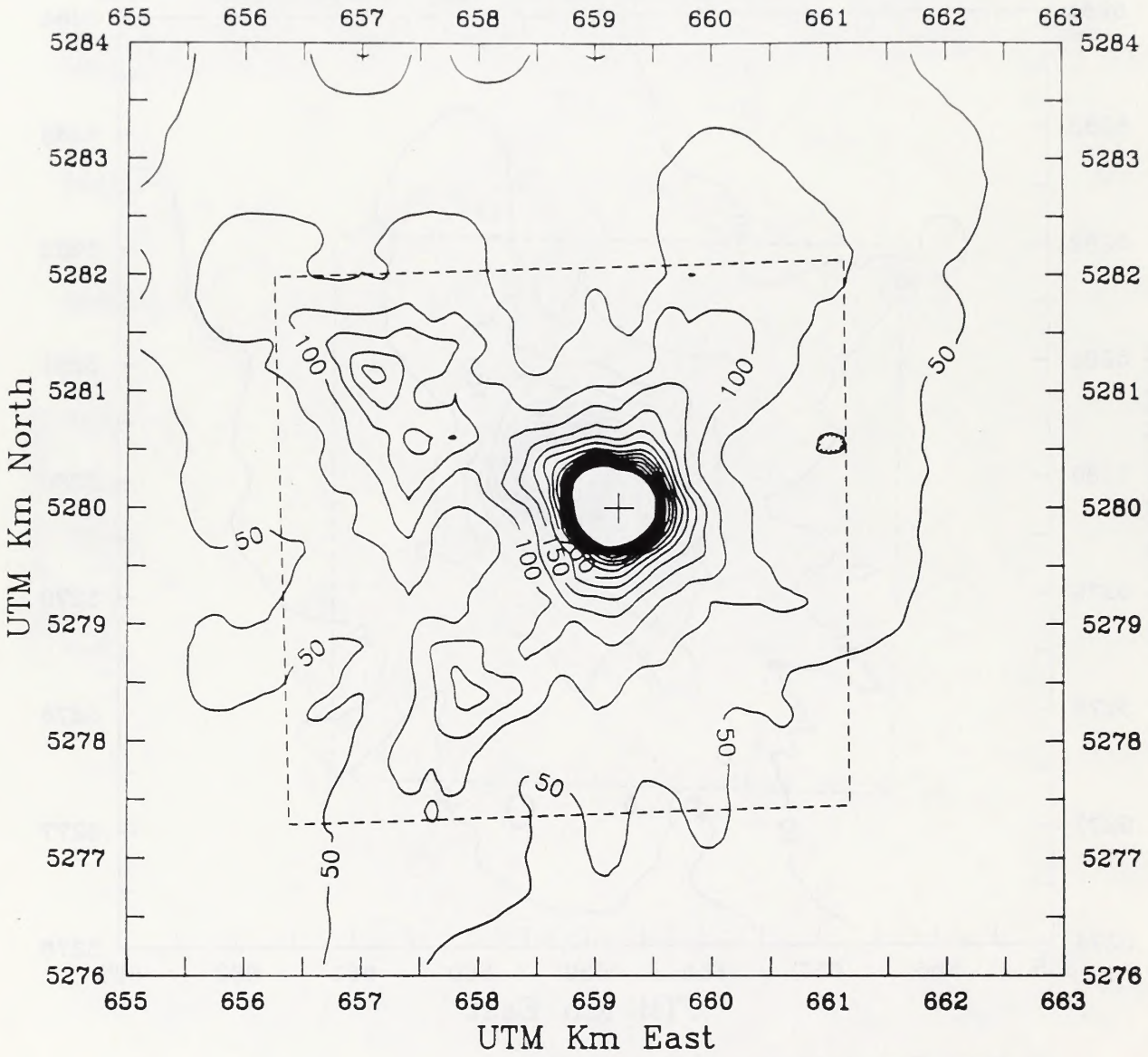
Highest Concentration (+) = 7638
Ambient Air Quality Standard = 715 Contour Interval = 100

Figure C-75
Lost Bridge Field – Existing Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



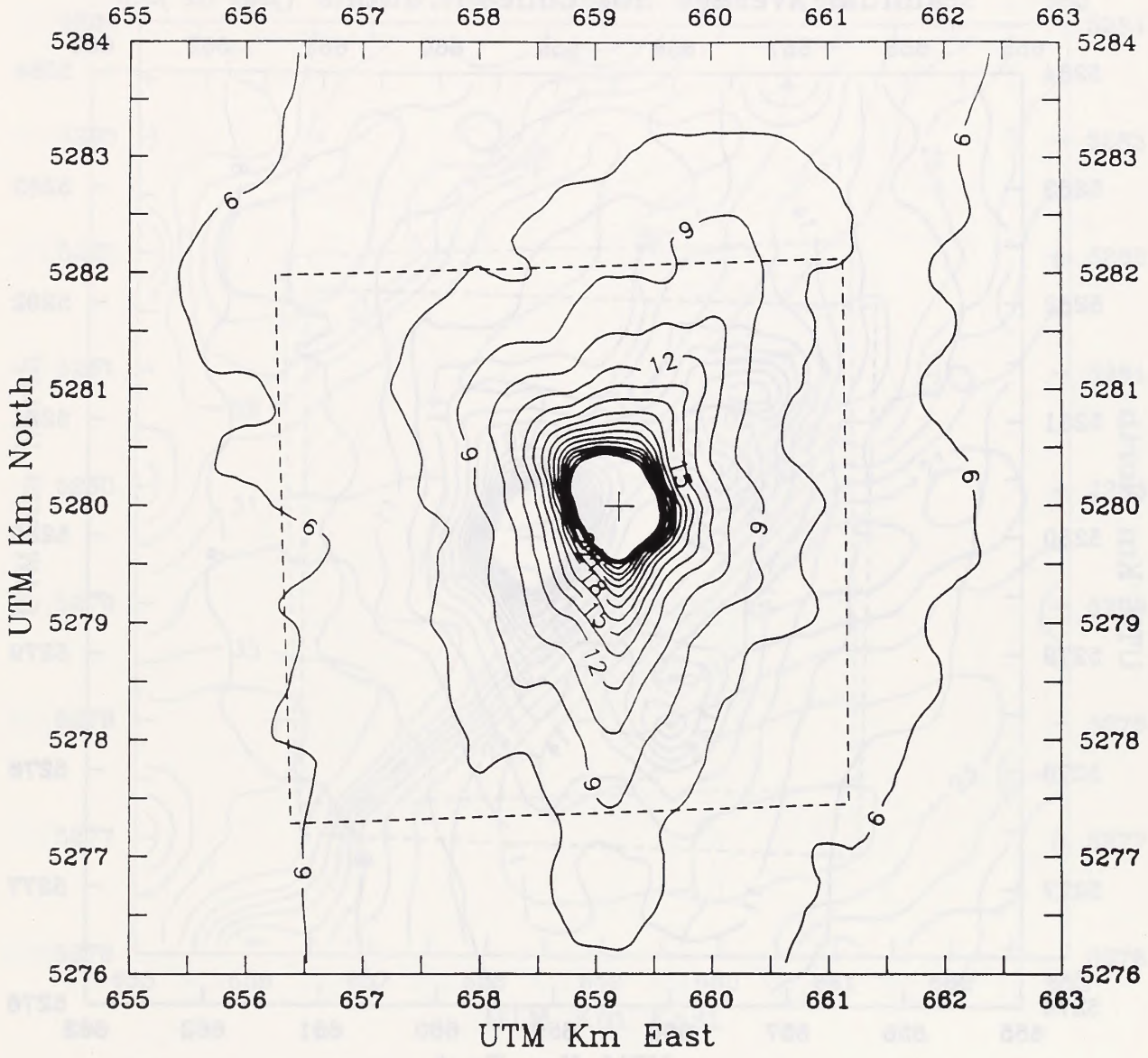
Highest Concentration (+) = 2641
Ambient Air Quality Standard = 260 Contour Interval = 30

Figure C-76
Lost Bridge Field - Future Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



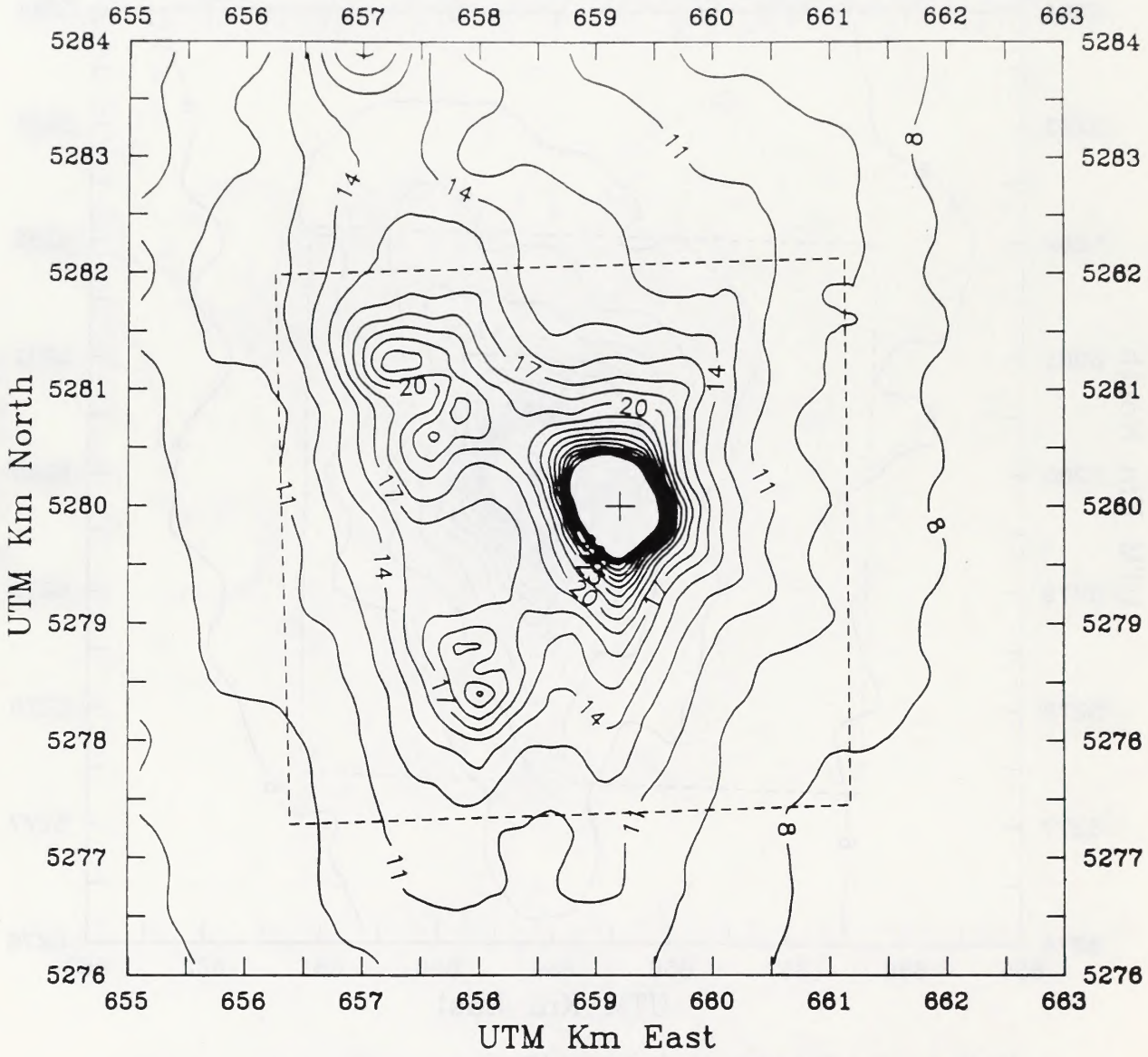
Highest Concentration (+) = 2656
Ambient Air Quality Standard = 260 Contour Interval = 25

Figure C-77
Lost Bridge Field – Existing Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



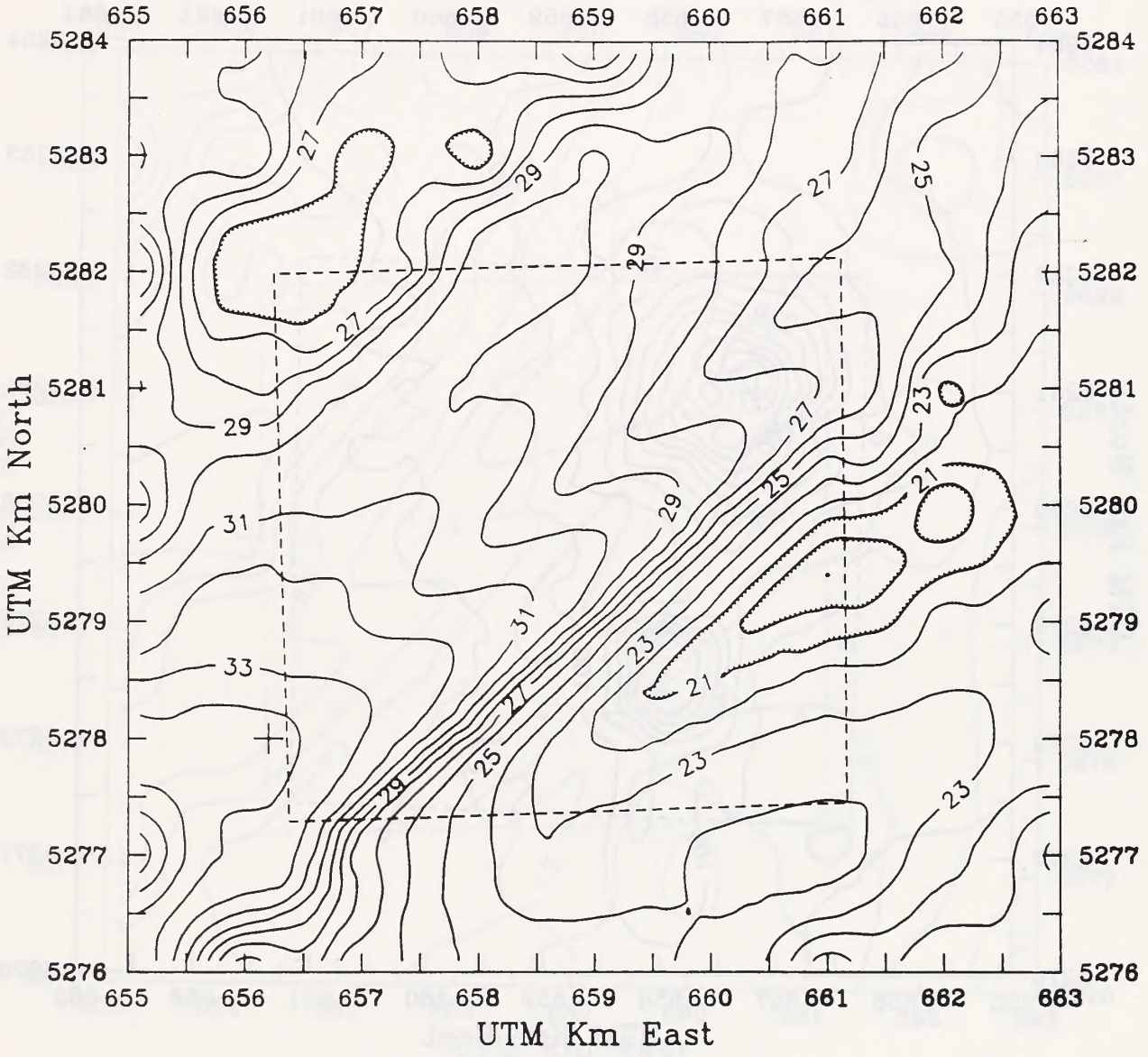
Highest Concentration (+) = 140
Ambient Air Quality Standard = 60 Contour Interval = 1.5

Figure C-78
Lost Bridge Field – Future Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



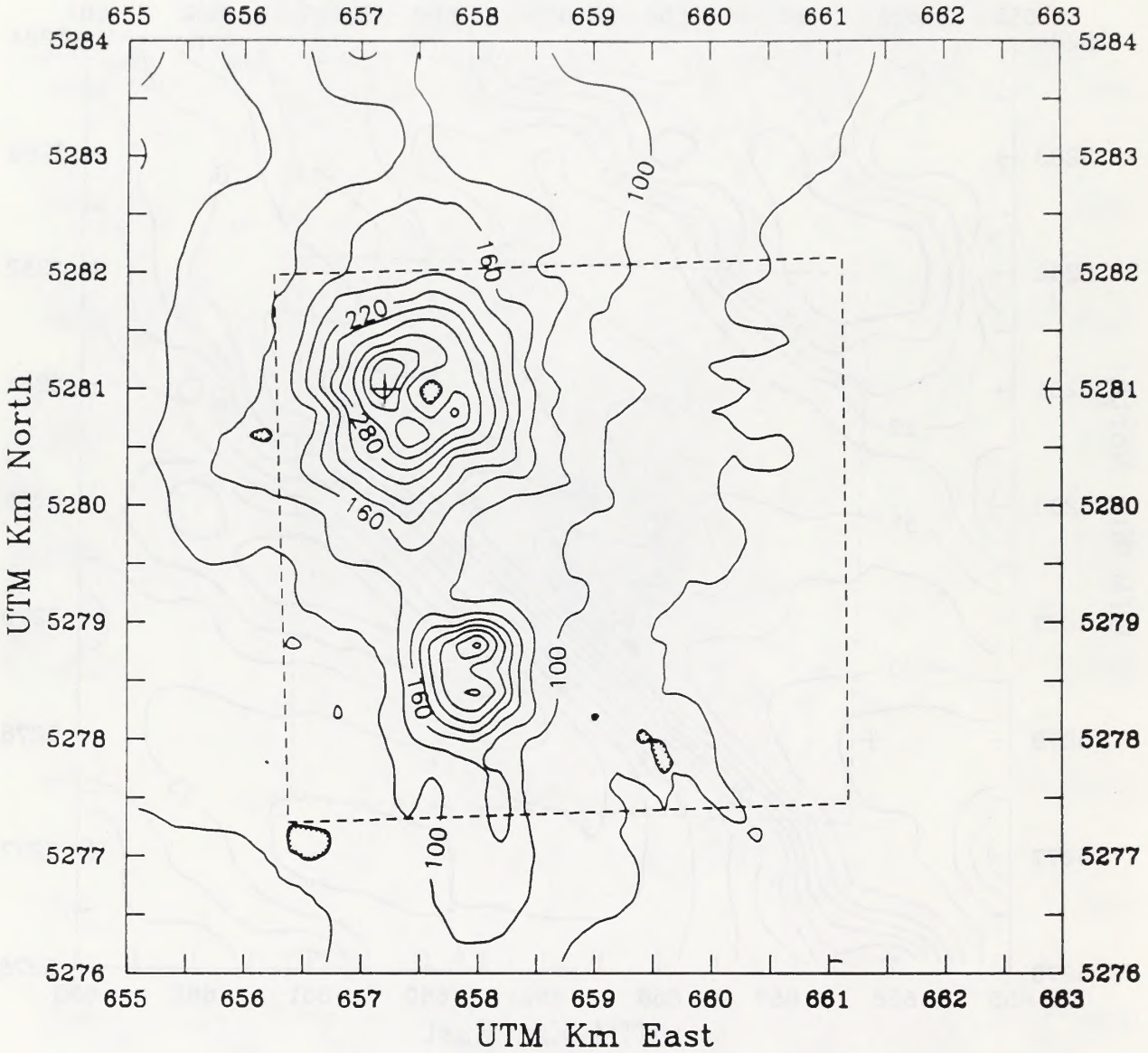
Highest Concentration (+) = 145
Ambient Air Quality Standard = 60 Contour Interval = 1.5

Figure C-79
Lost Bridge Field - Existing PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



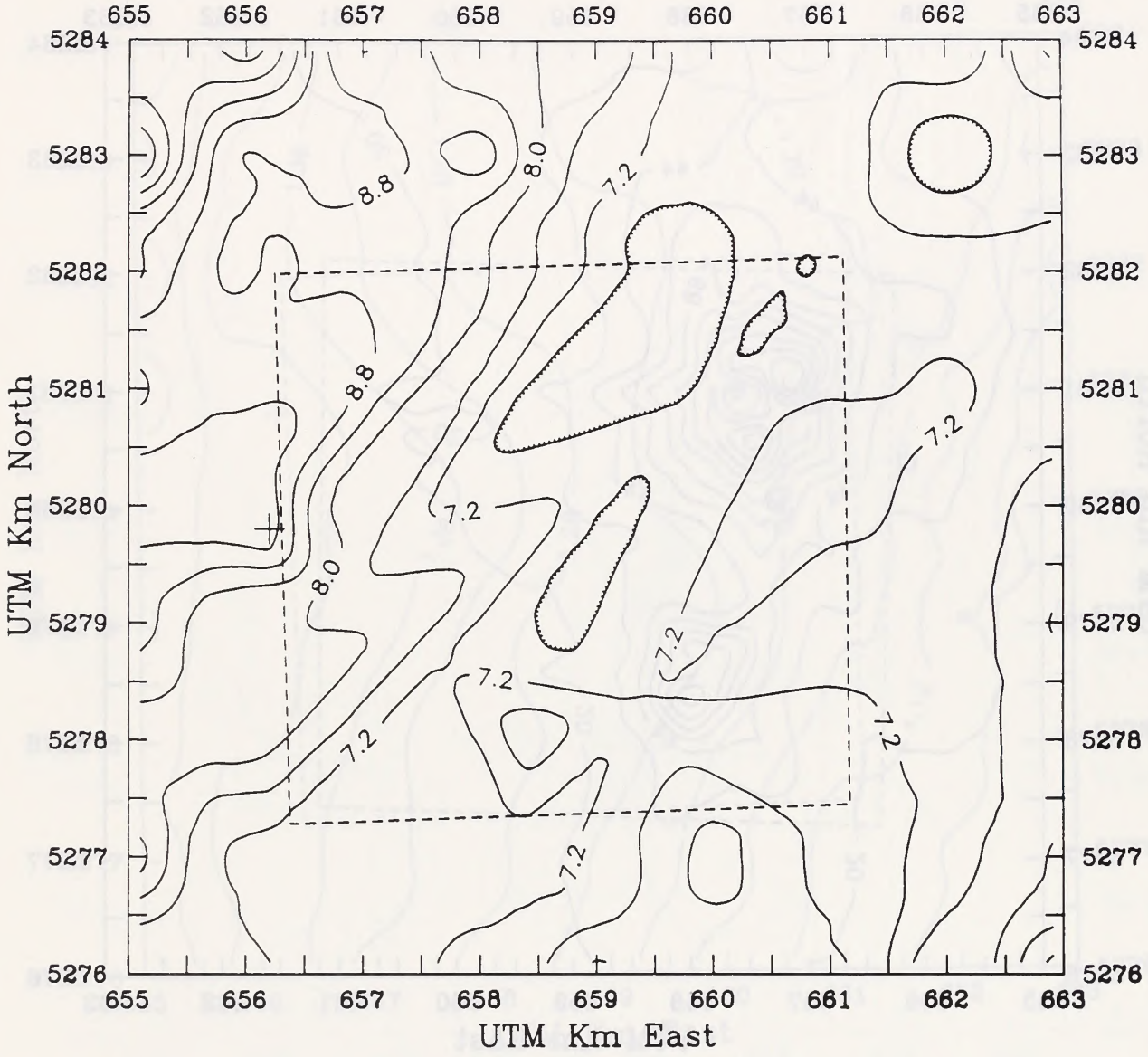
Highest 2nd Highest Concentration (+) = 35
PSD Class II Increment = 512 Contour Interval = 1

Figure C-80
Lost Bridge Field - Future PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



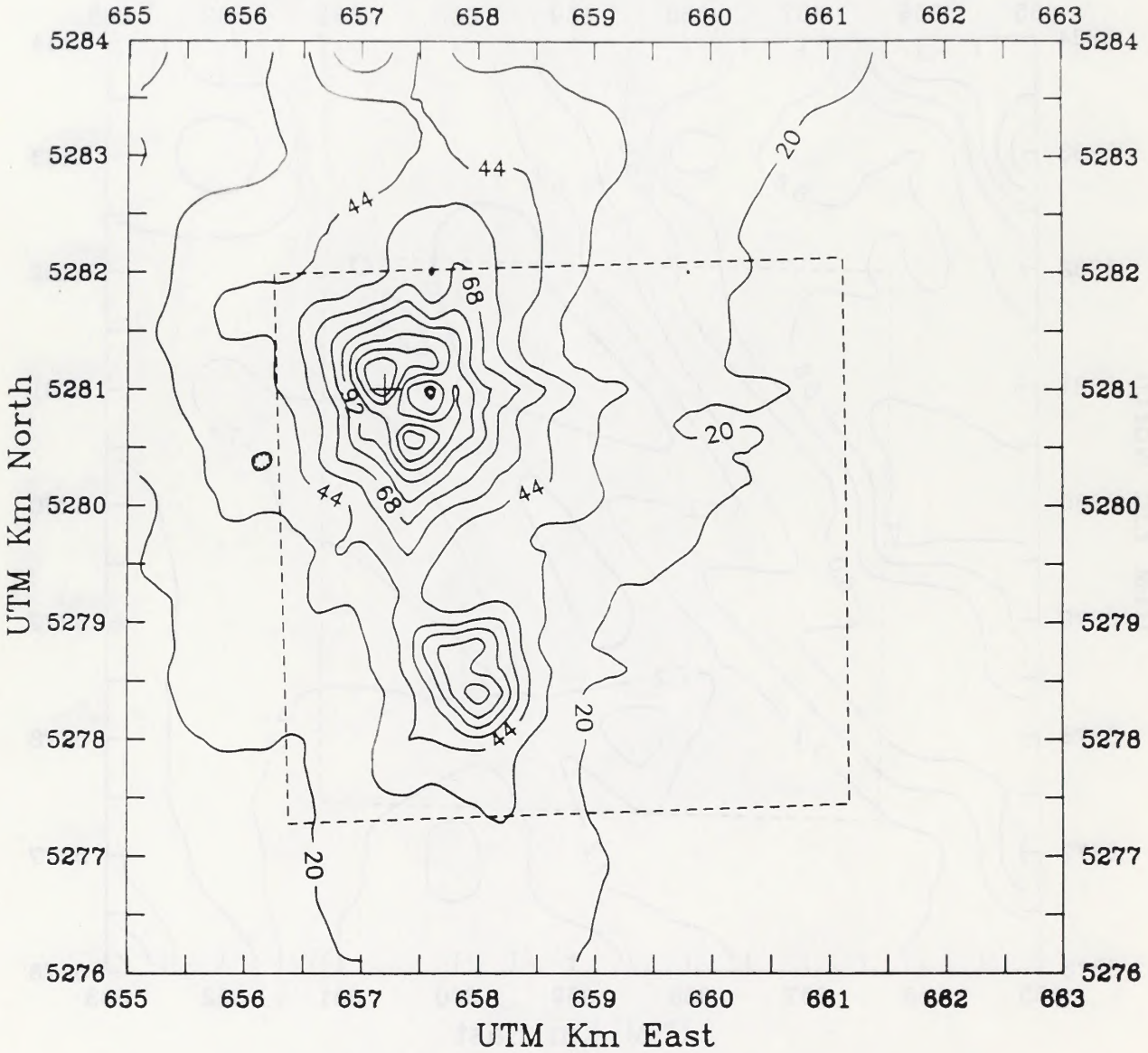
Highest 2nd Highest Concentration (+) = 452
PSD Class II Increment = 512 Contour Interval = 30

Figure C-81
Lost Bridge Field – Existing PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



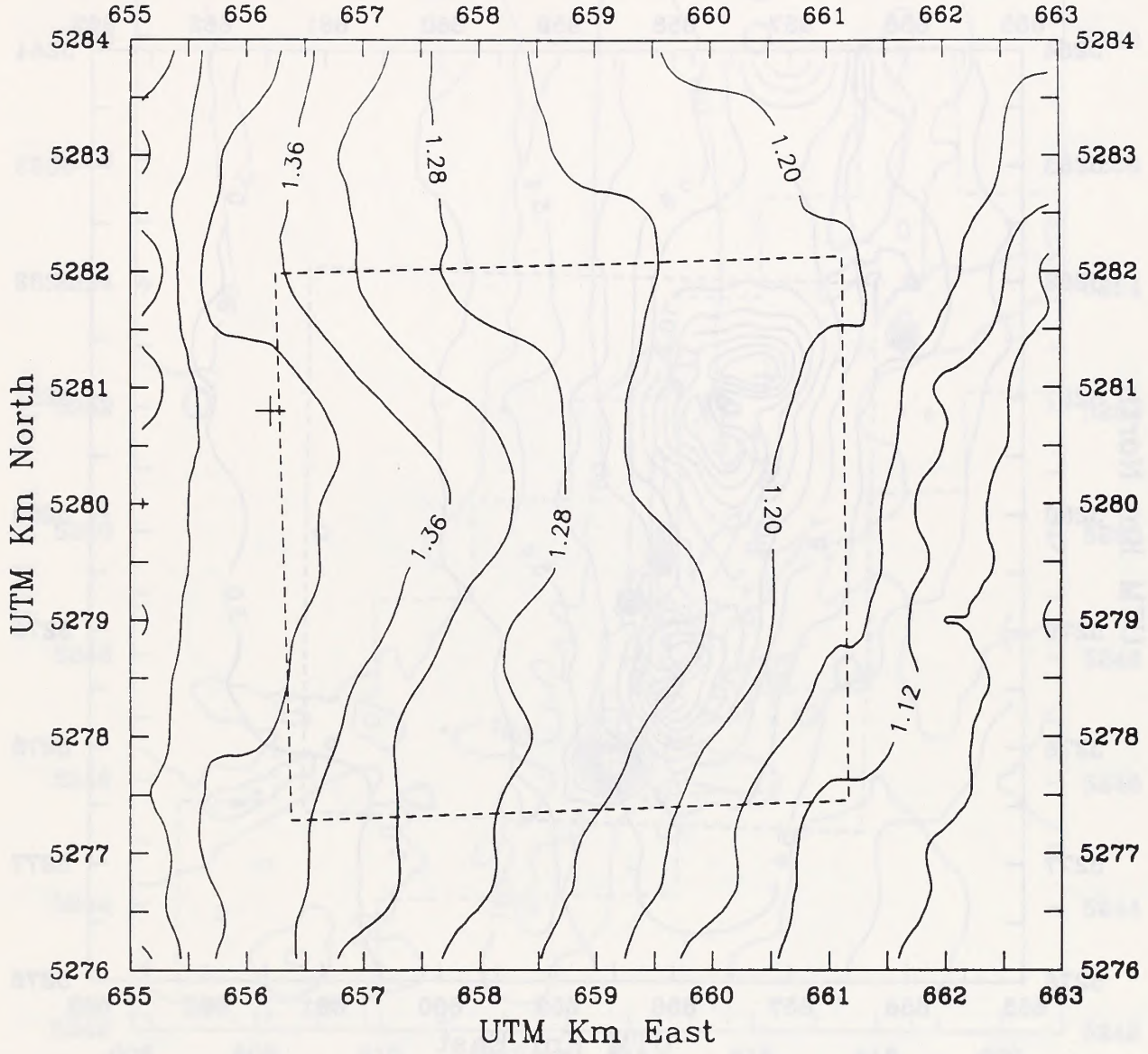
Highest 2nd Highest Concentration (+) = 9.6
PSD Class II Increment = 91 Contour Interval = 0.4

Figure C-82
Lost Bridge Field – Future PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



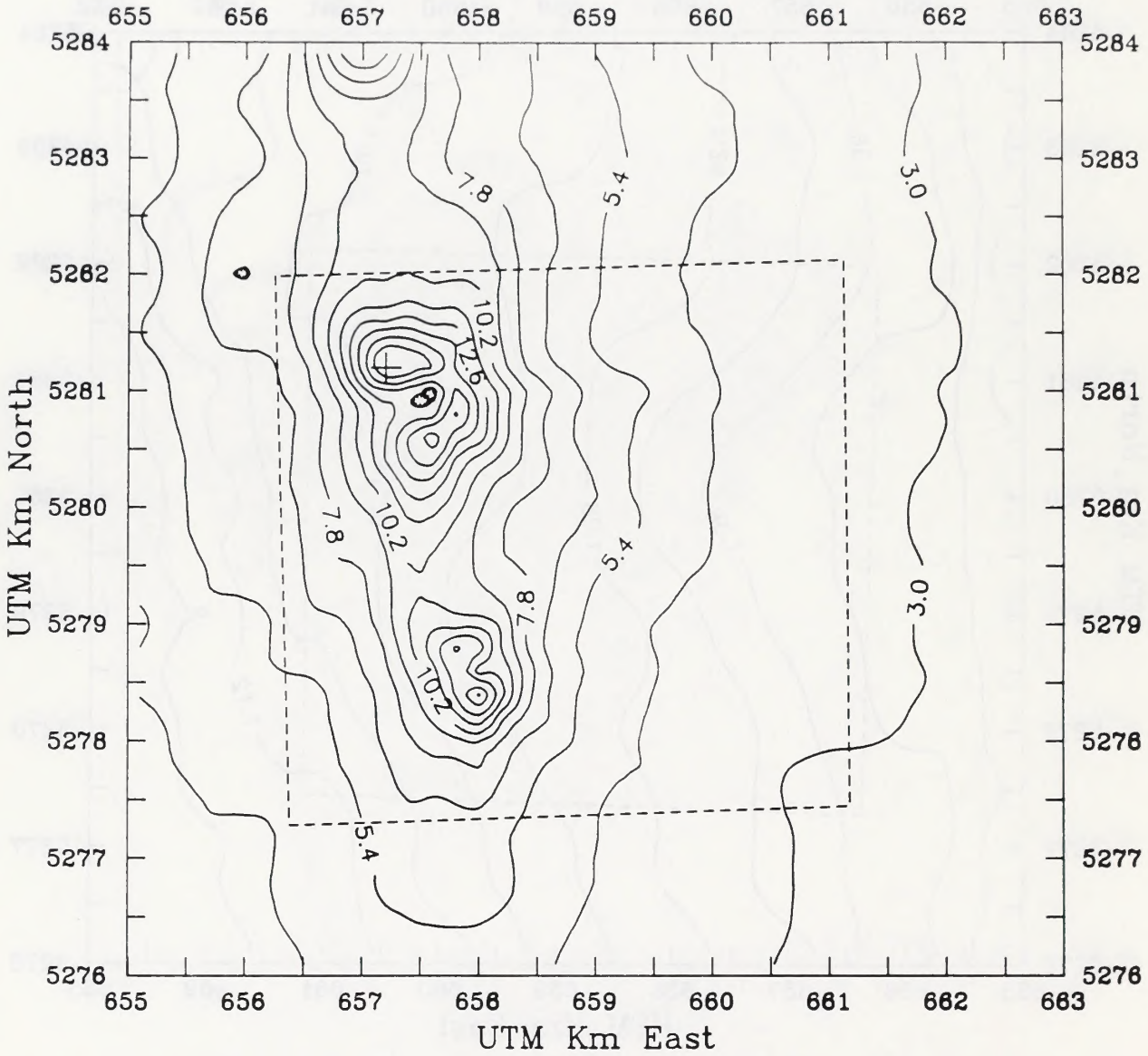
Highest 2nd Highest Concentration (+) = 165
PSD Class II Increment = 91 Contour Interval = 12

Figure C-83
Lost Bridge Field - Existing PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



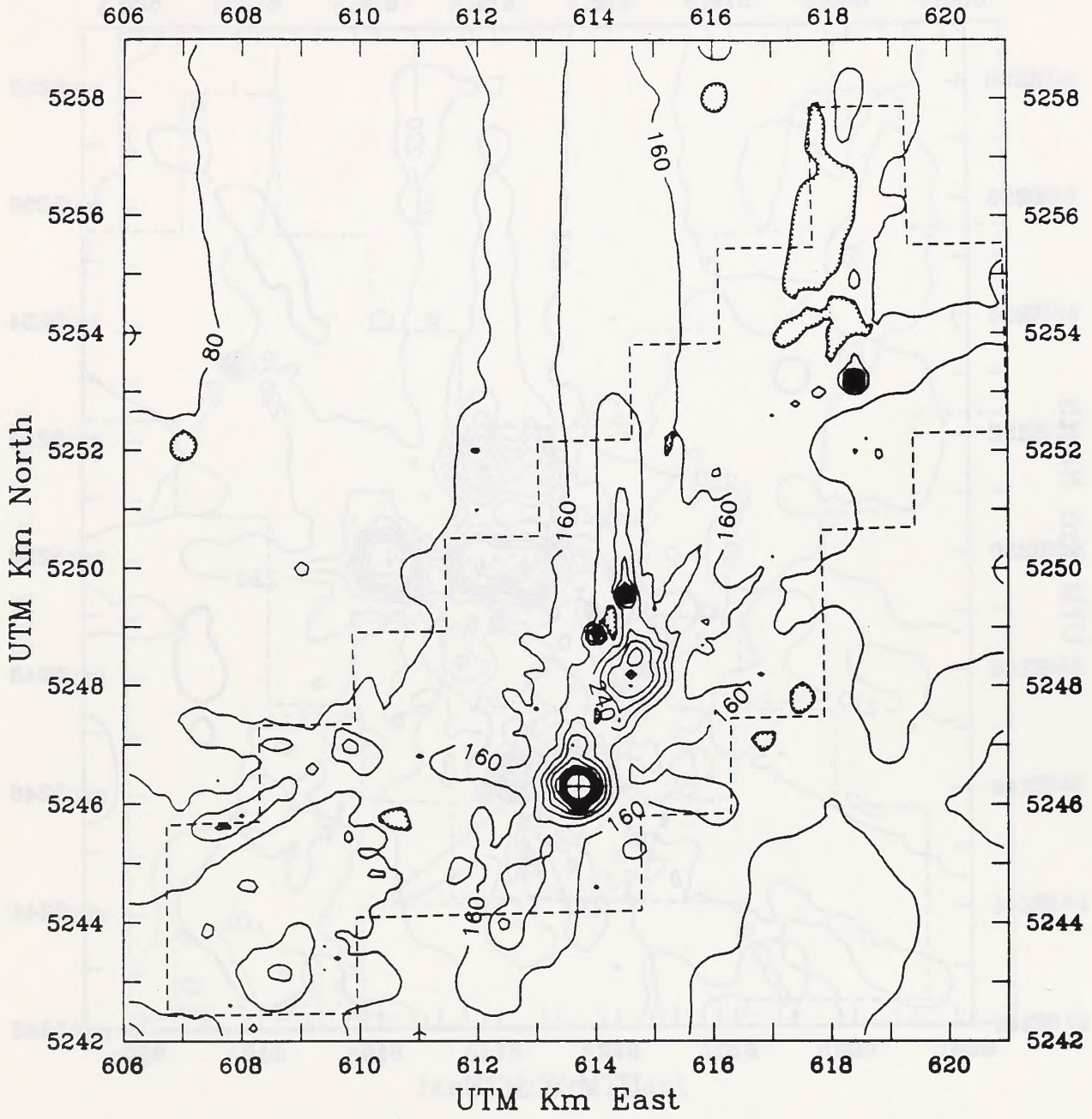
Highest Concentration (+) = 1.4
PSD Class II Increment = 15 Contour Interval = 0.04

Figure C-84
Lost Bridge Field - Future PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



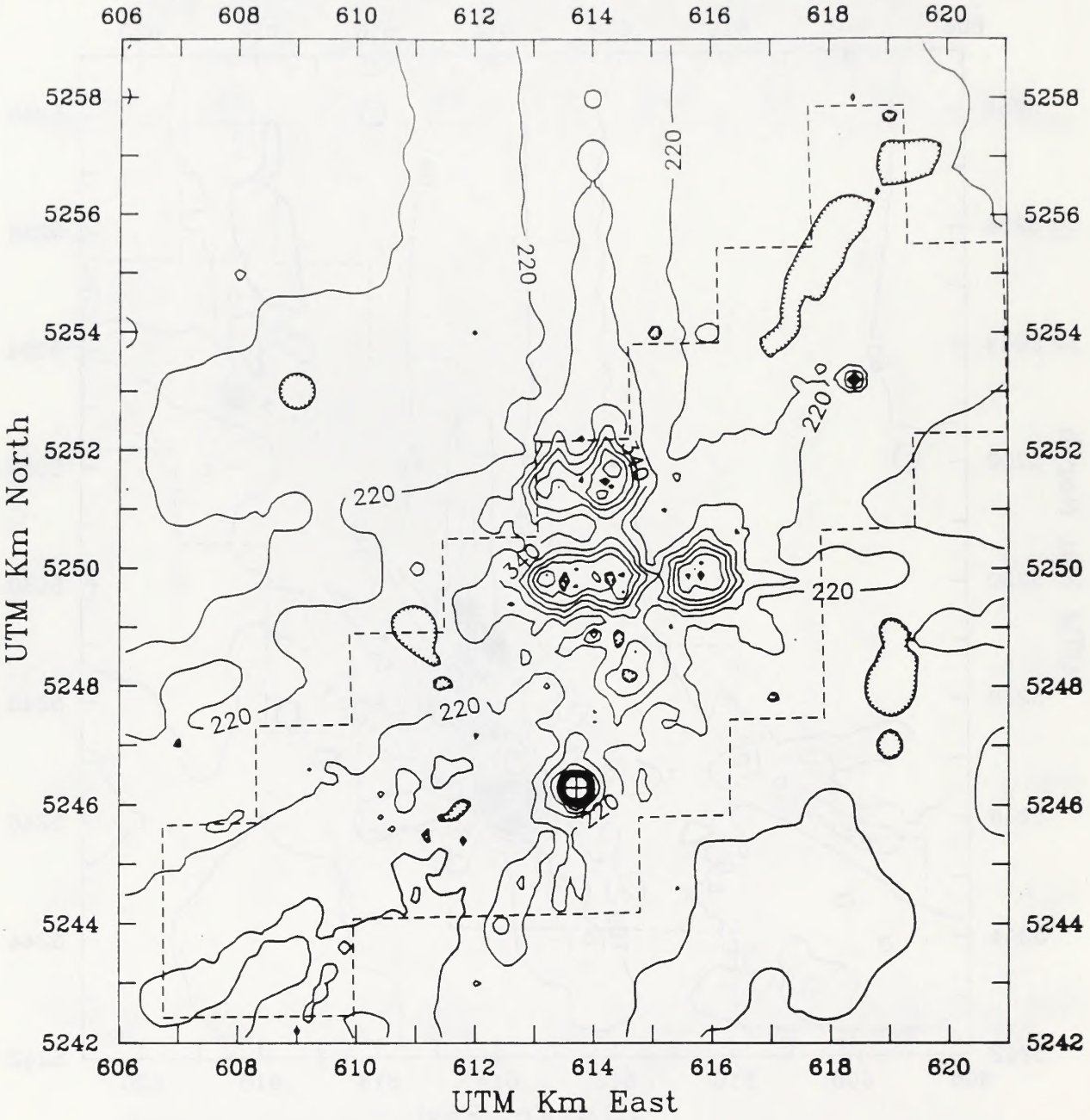
Highest Concentration (+) = 20
PSD Class II Increment = 15 Contour Interval = 1.2

Figure C-85
Rough Rider Field – Existing Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



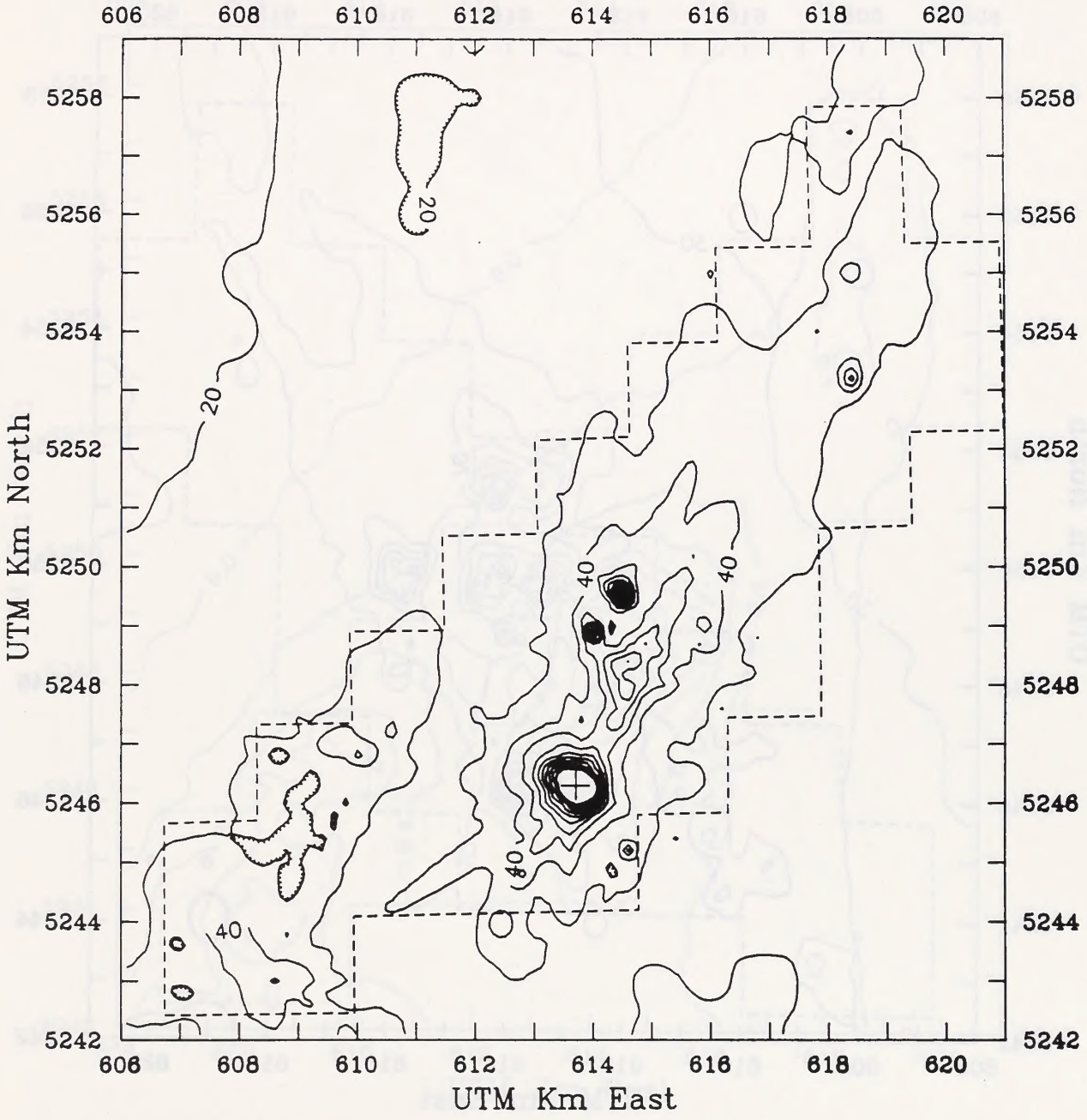
Highest Concentration (+) = 10813
Ambient Air Quality Standard = 715 Contour Interval = 40

Figure C-86
Rough Rider Field - Future Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



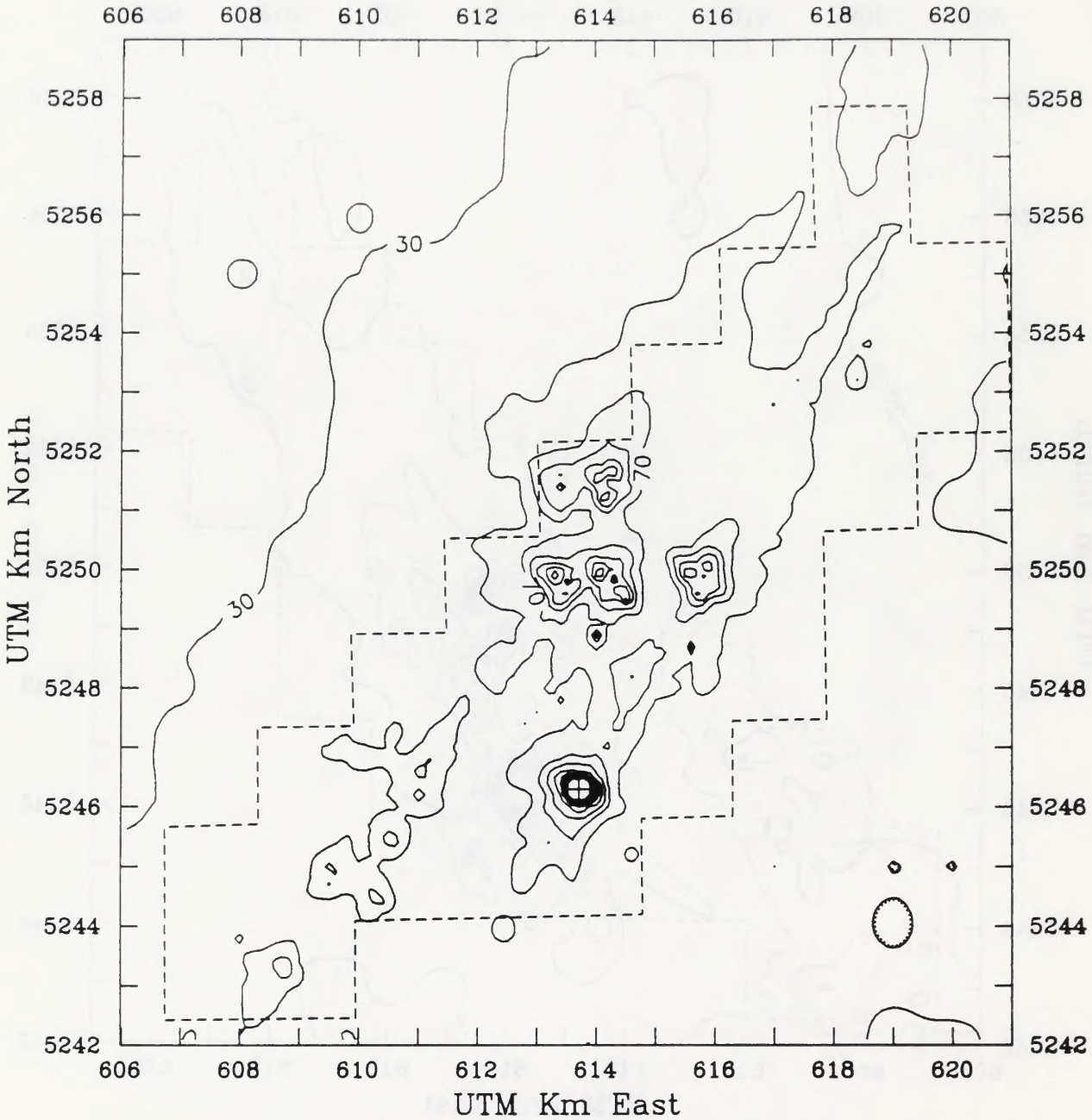
Highest Concentration (+) = 10816
Ambient Air Quality Standard = 715 Contour Interval = 60

Figure C-87
Rough Rider Field – Existing Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



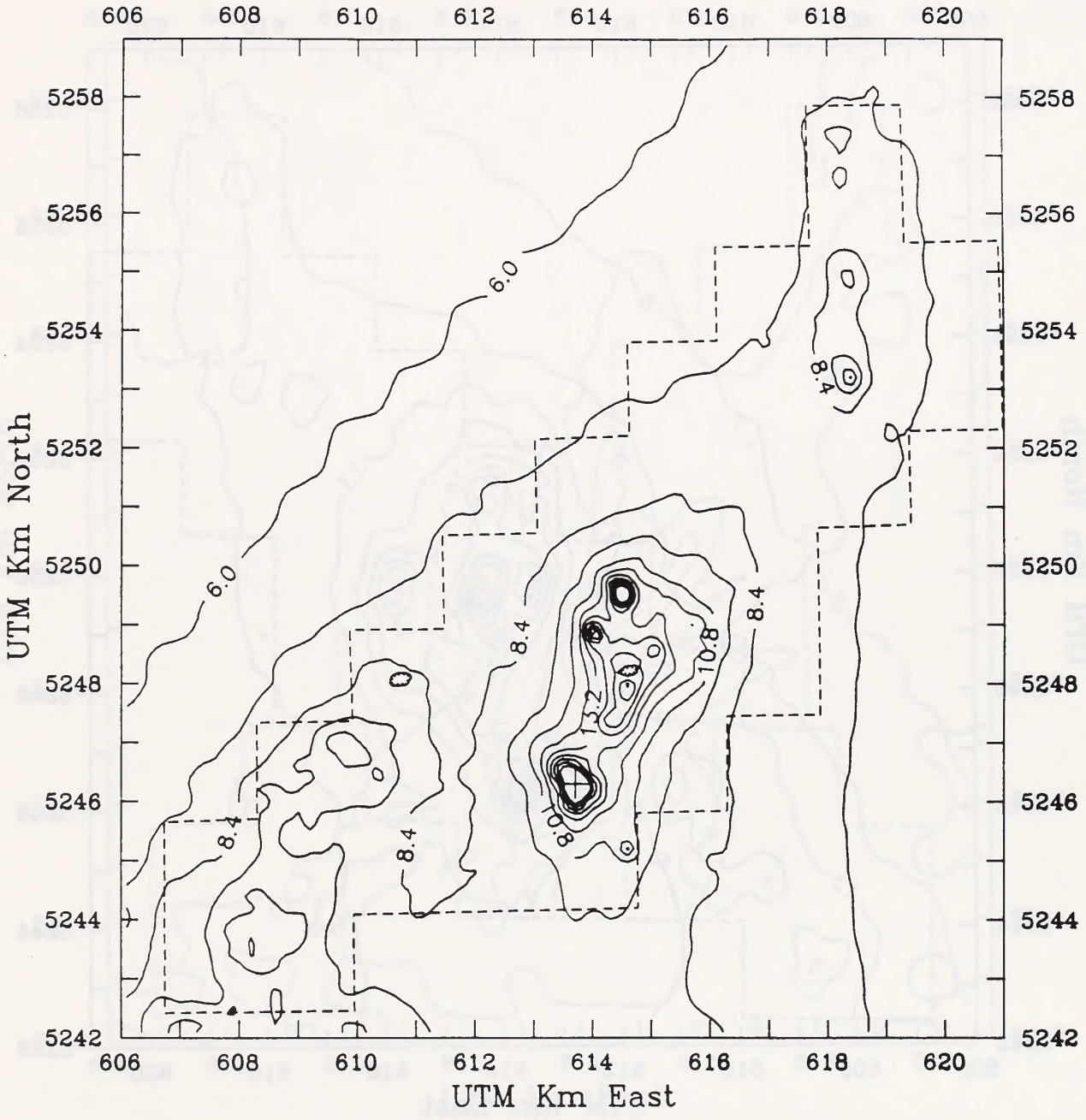
Highest Concentration (+) = 2918
Ambient Air Quality Standard = 260 Contour Interval = 10

Figure C-88
Rough Rider Field – Future Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



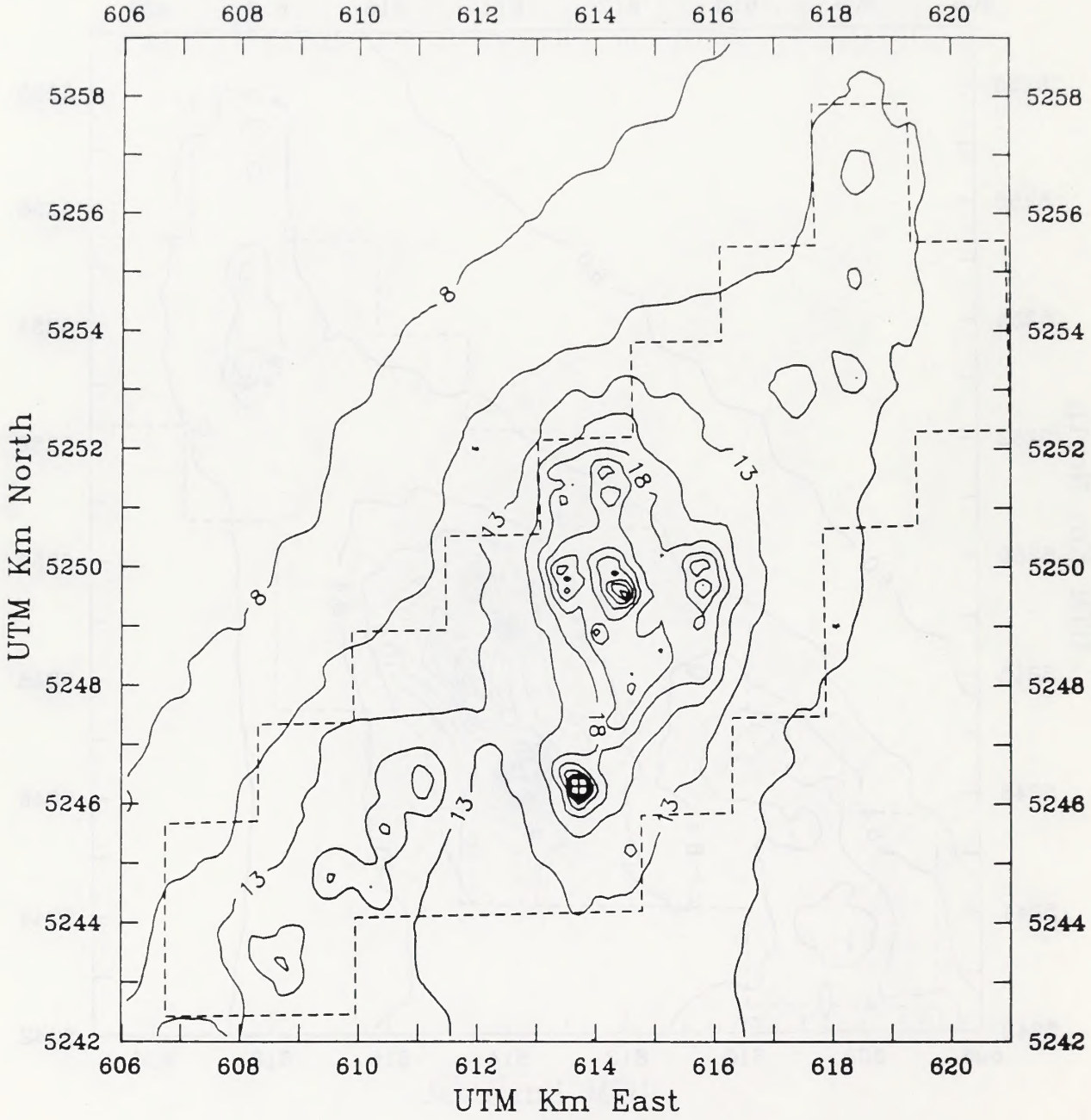
Highest Concentration (+) = 2922
Ambient Air Quality Standard = 260 Contour Interval = 20

Figure C-89
Rough Rider Field – Existing Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



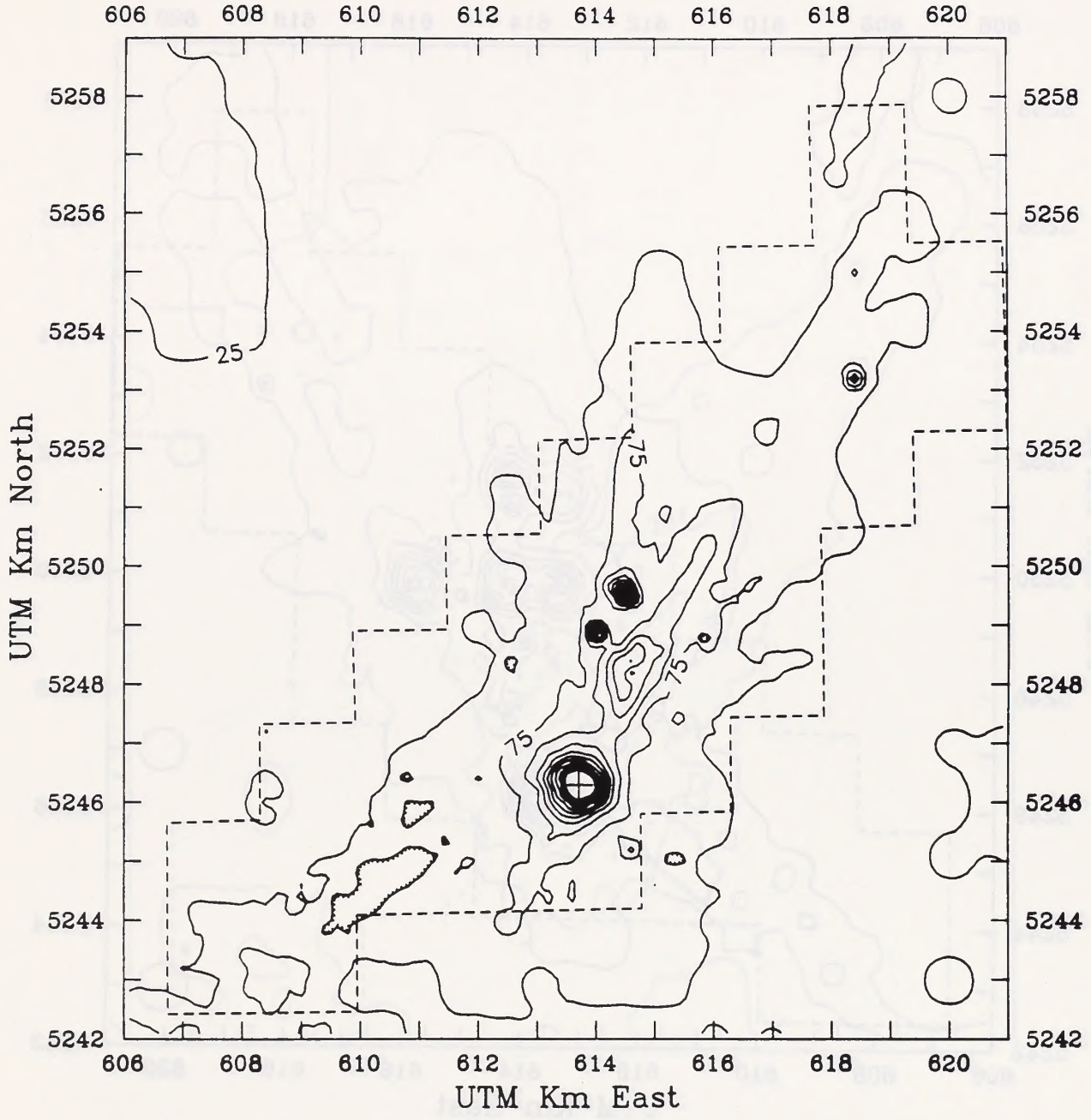
Highest Concentration (+) = 166
Ambient Air Quality Standard = 60 Contour Interval = 1.2

Figure C-90
Rough Rider Field – Future Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



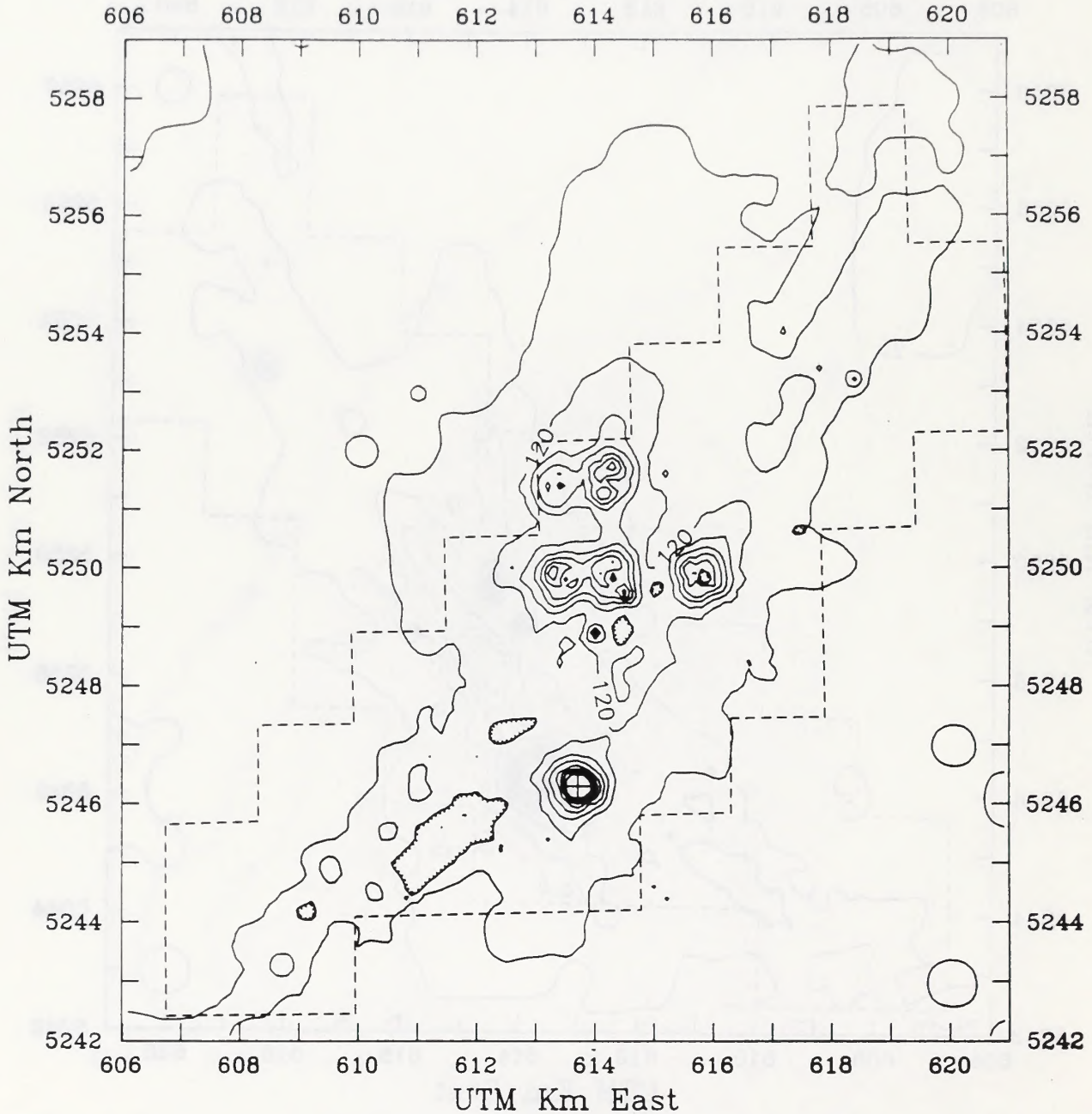
Highest Concentration (+) = 170
Ambient Air Quality Standard = 60 Contour Interval = 2.5

Figure C-91
Rough Rider Field – Existing PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



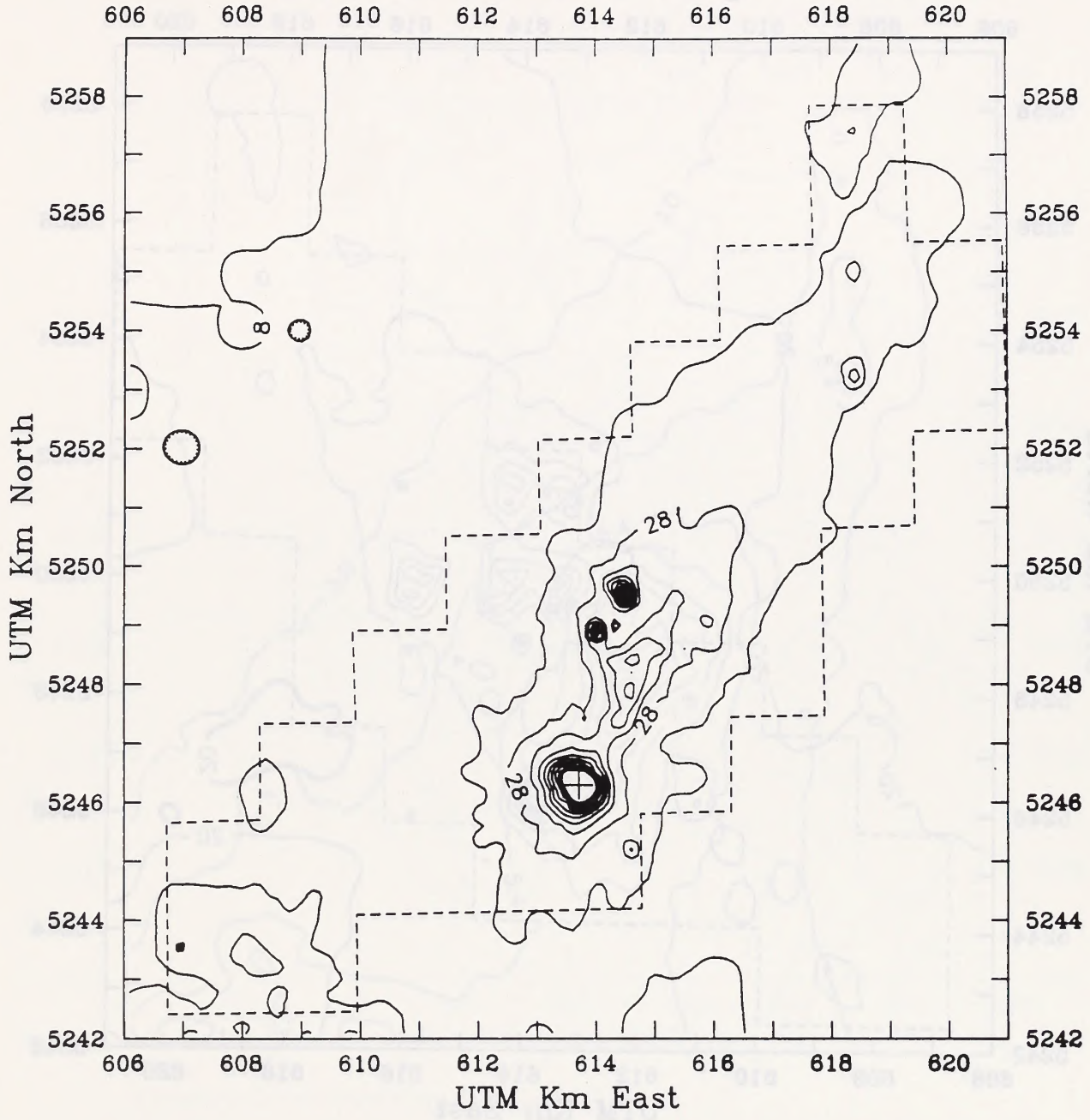
Highest 2nd Highest Concentration (+) = 5607
PSD Class II Increment = 512 Contour Interval = 25

Figure C-92
Rough Rider Field – Future PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



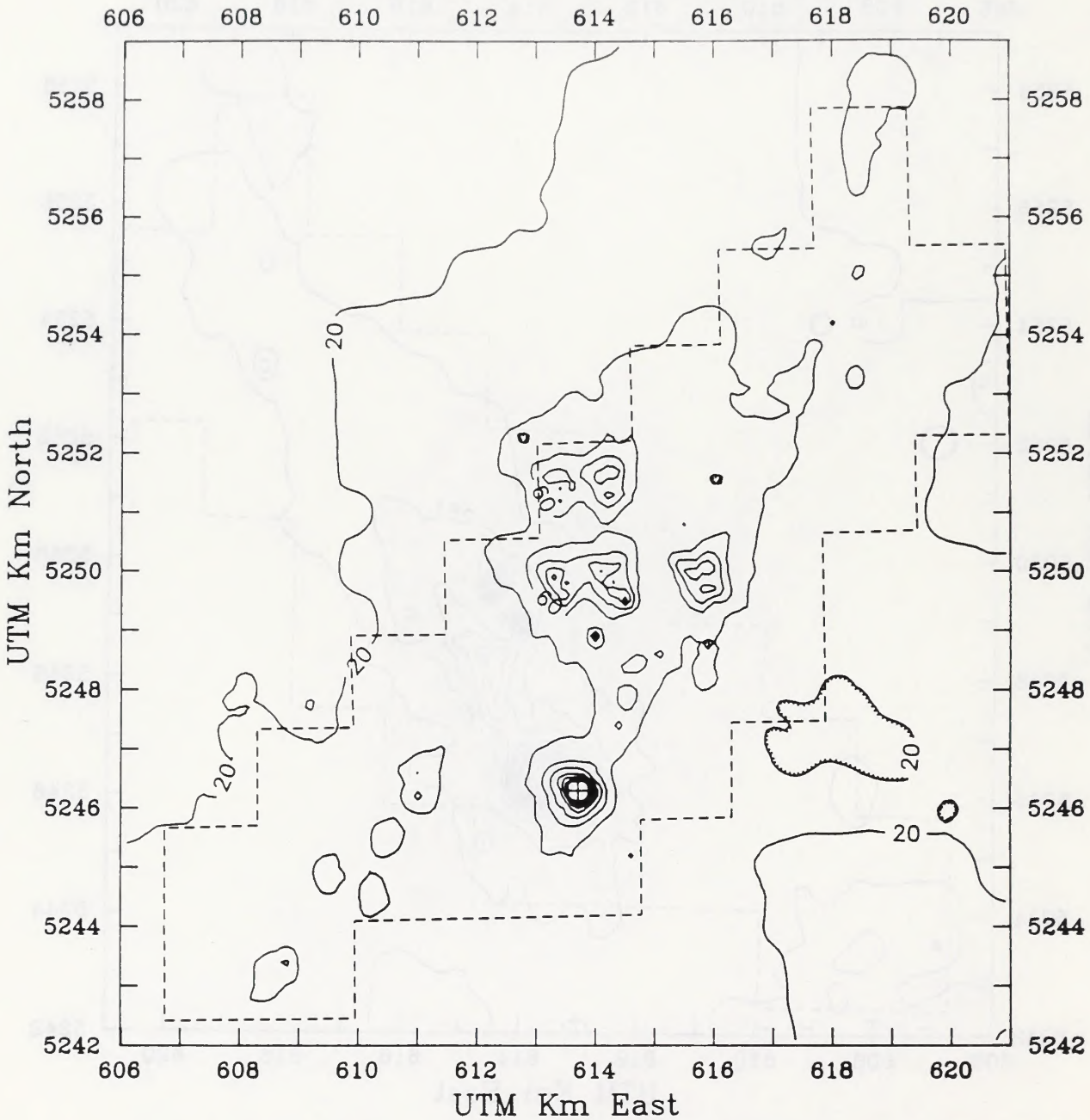
Highest 2nd Highest Concentration (+) = 5609
PSD Class II Increment = 512 Contour Interval = 40

Figure C-93
Rough Rider Field - Existing PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



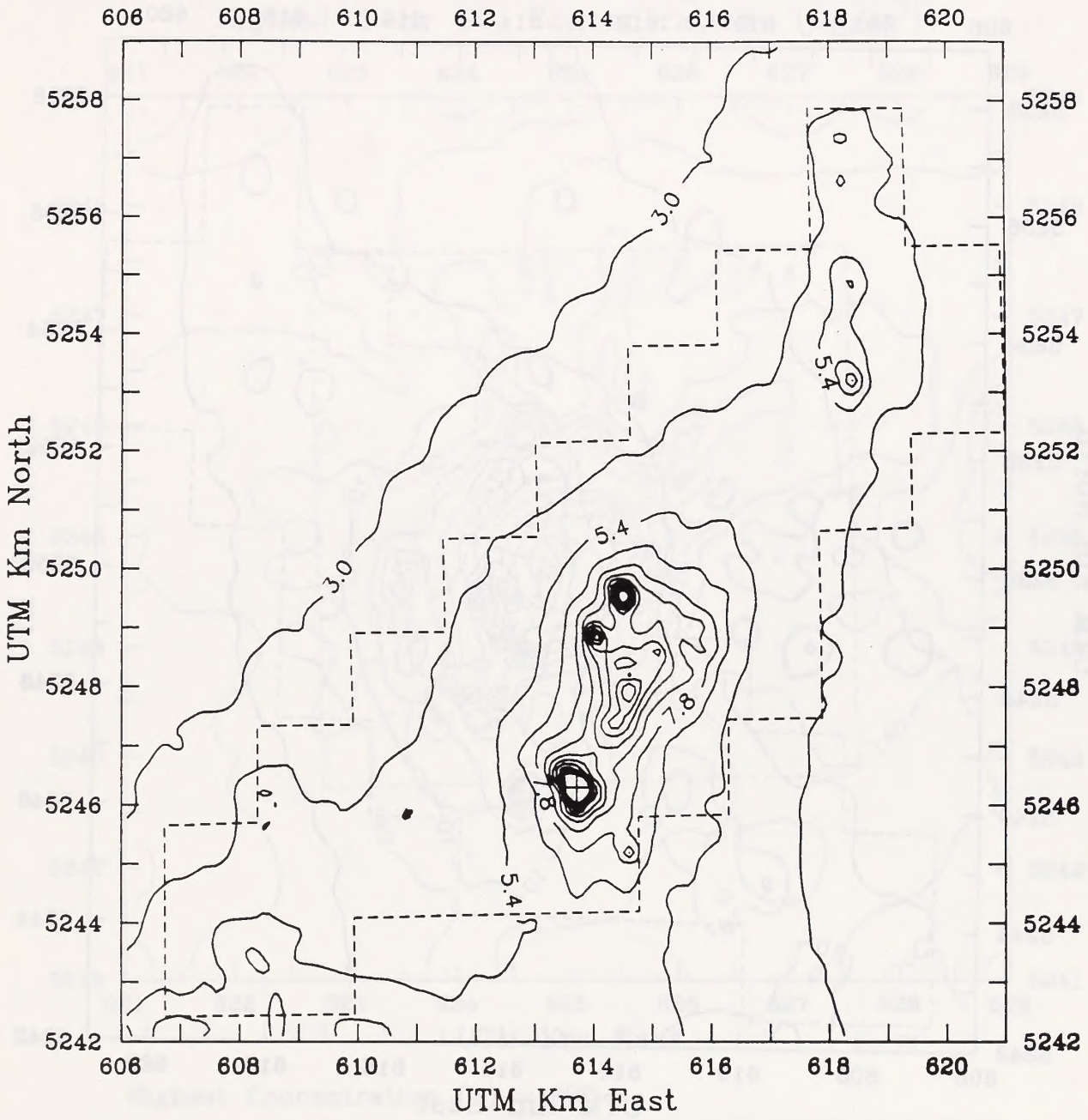
Highest 2nd Highest Concentration (+) = 1891
PSD Class II Increment = 91 Contour Interval = 10

Figure C-94
Rough Rider Field – Future PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



Highest 2nd Highest Concentration (+) = 1898
PSD Class II Increment = 91 Contour Interval = 20

Figure C-95
Rough Rider Field – Existing PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)

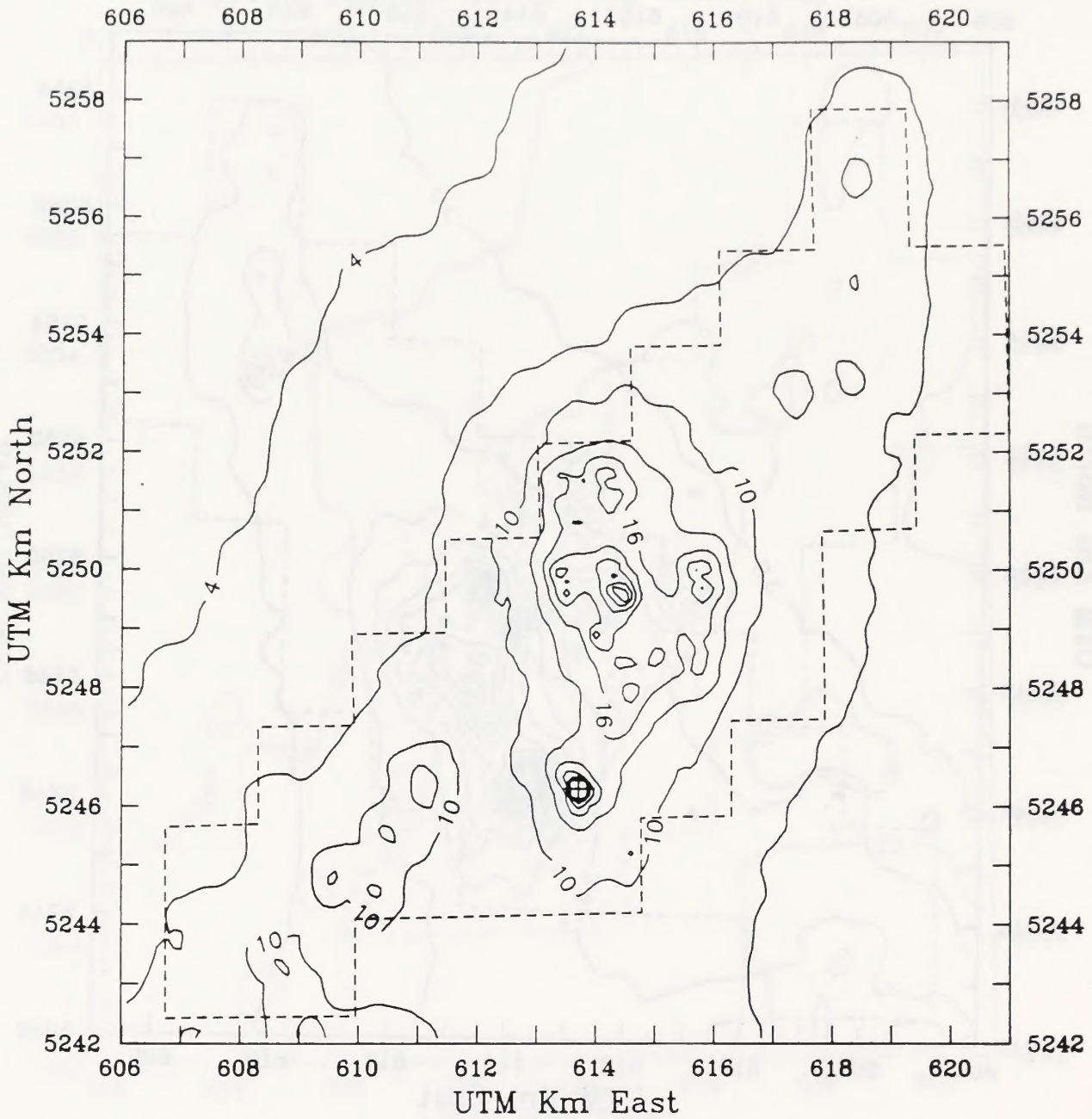


Highest Concentration (+) = 163
PSD Class II Increment = 15 Contour Interval = 1.2

Figure C-96

Rough Rider Field – Future PSD Class II Scenario

Annual Average SO_2 Concentrations ($\mu g/m^3$)

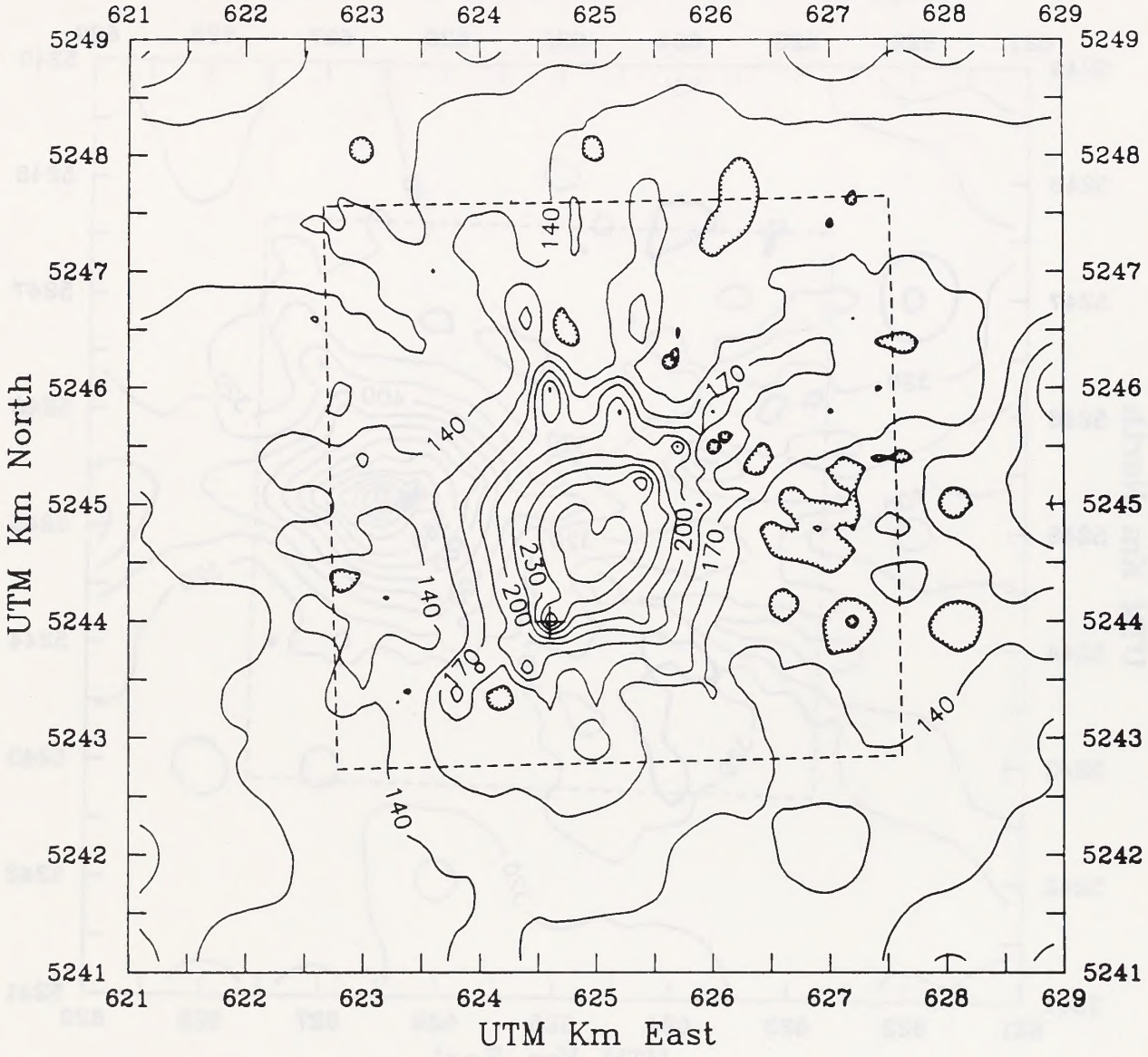


Highest Concentration (+) = 167

PSD Class II Increment = 15

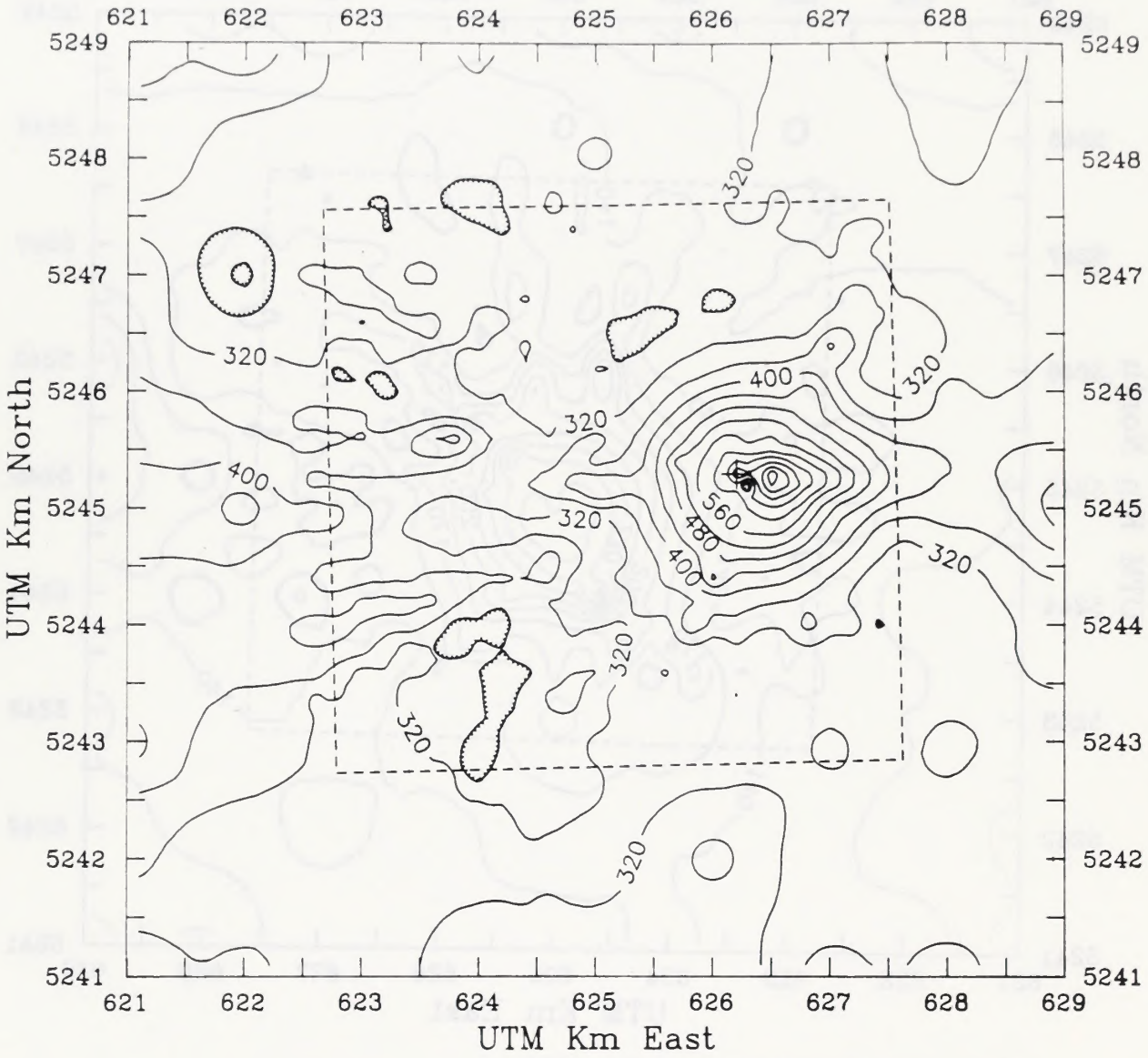
Contour Interval = 3

Figure C-97
Scairt Woman Field - Existing Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



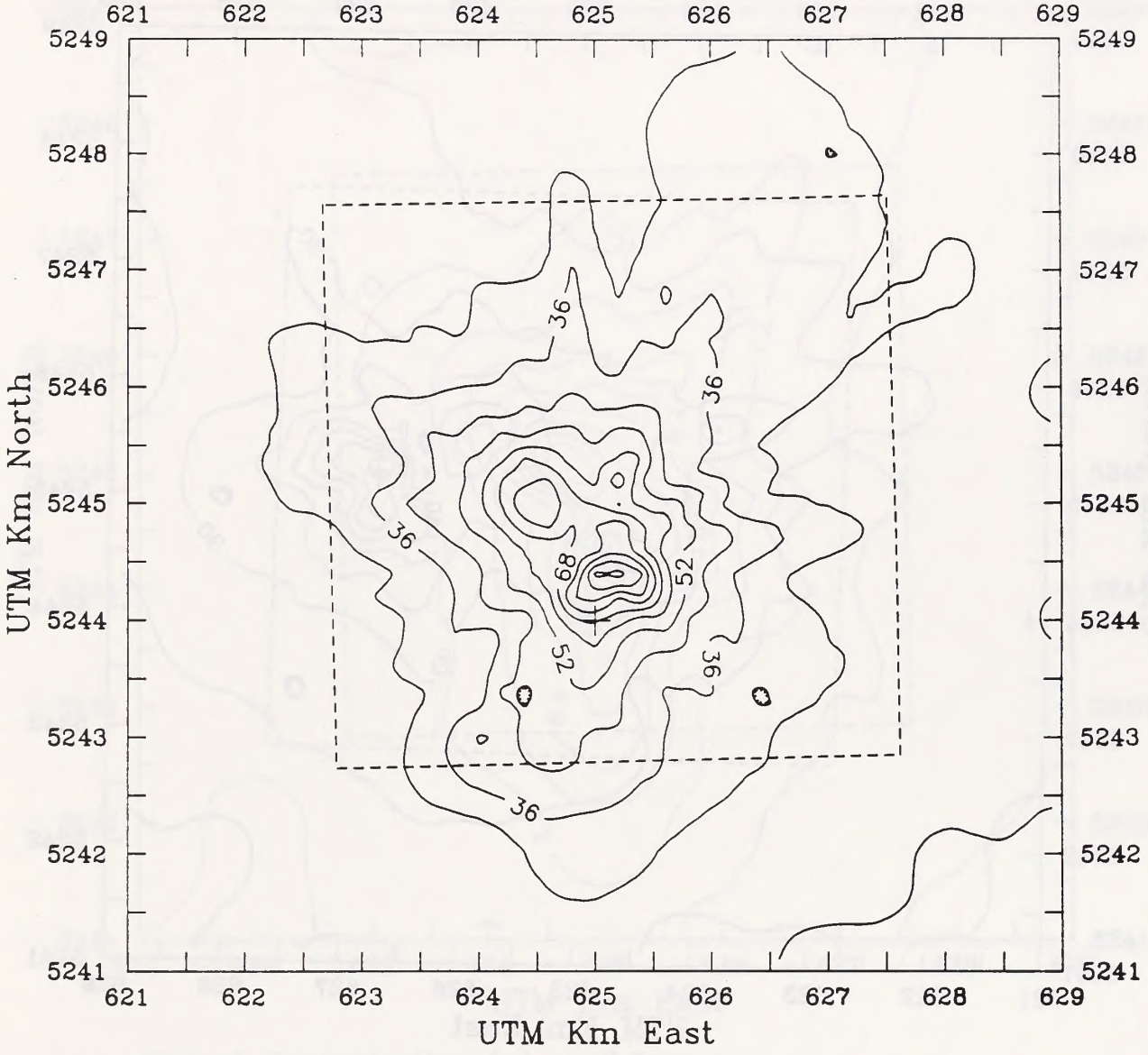
Highest Concentration (+) = 337
Ambient Air Quality Standard = 715 Contour Interval = 15

Figure C-98
Scairt Woman Field - Future Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



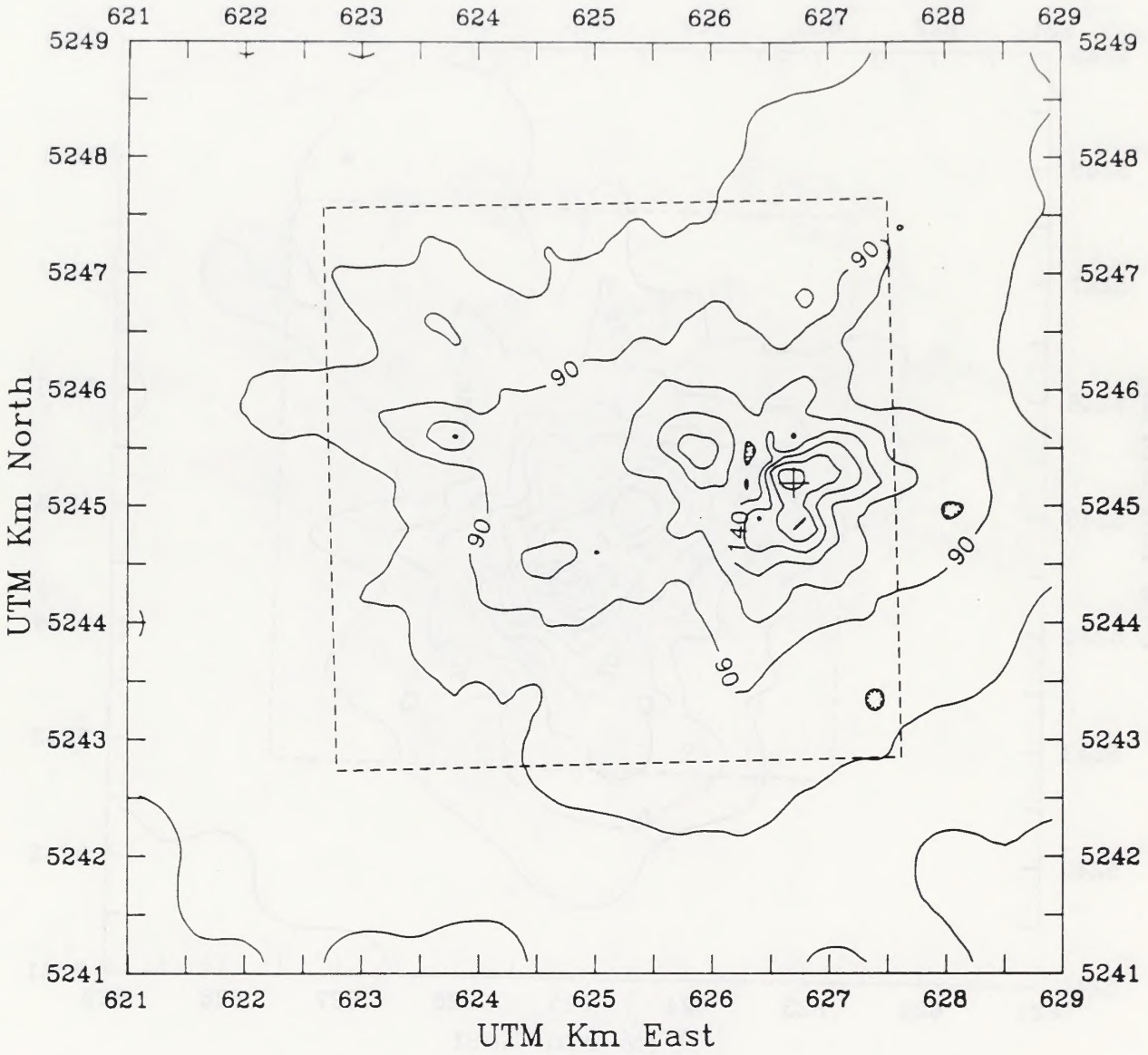
Highest Concentration (+) = 908
Ambient Air Quality Standard = 715 Contour Interval = 40

Figure C-99
Scairt Woman Field – Existing Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



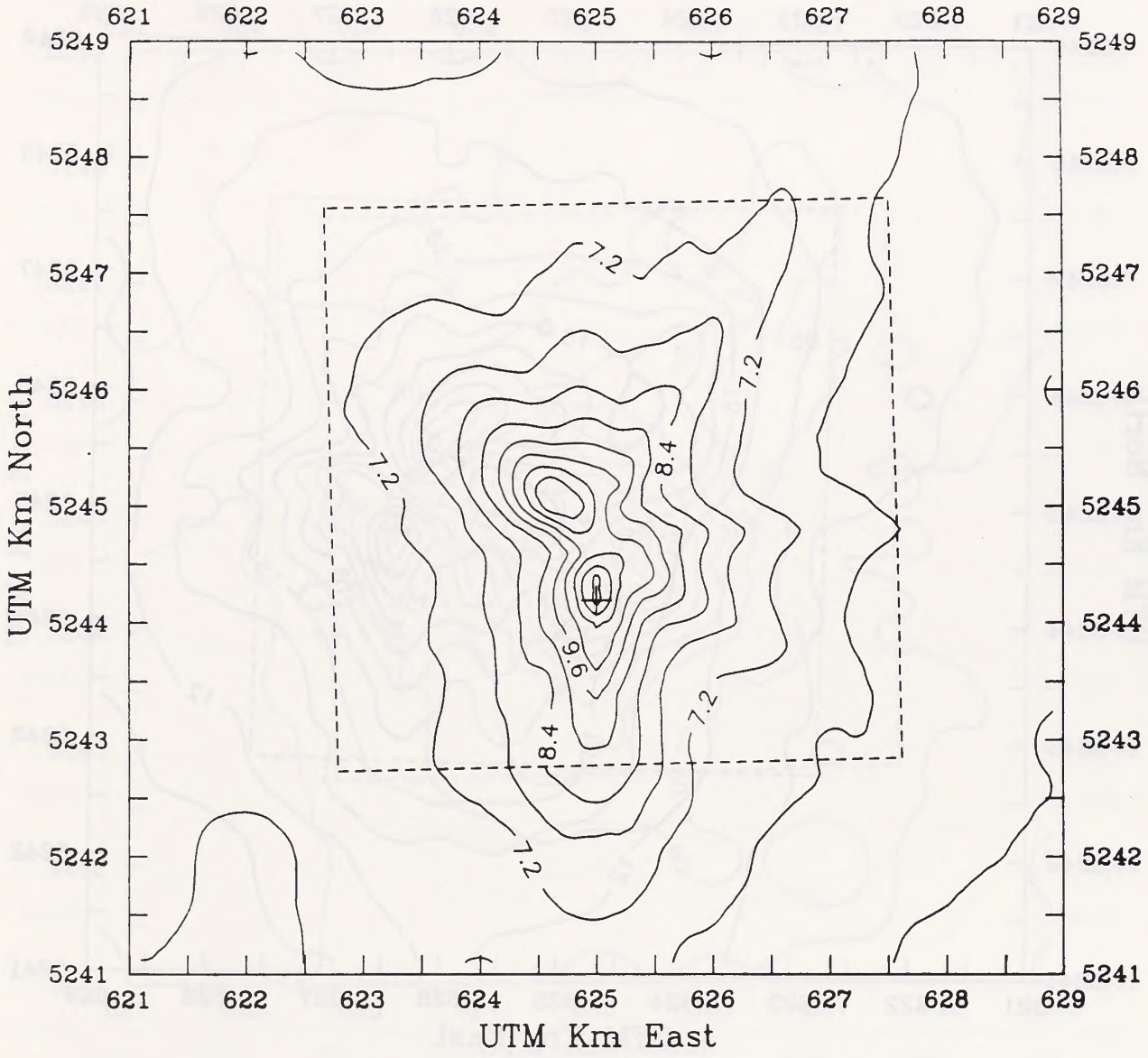
Highest Concentration (+) = 118
Ambient Air Quality Standard = 260 Contour Interval = 8

Figure C-100
Scairt Woman Field - Future Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



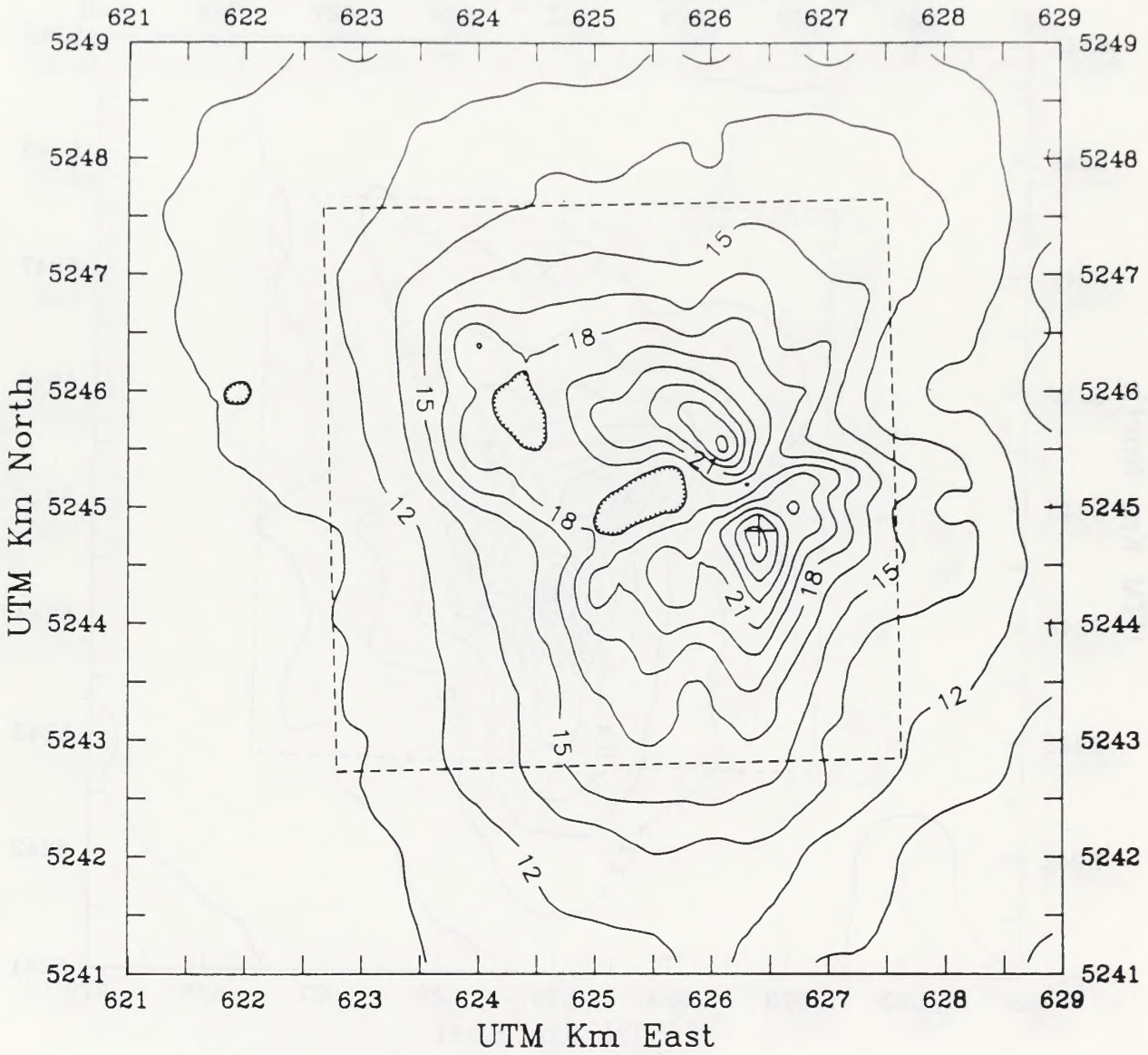
Highest Concentration (+) = 283
Ambient Air Quality Standard = 260 Contour Interval = 25

Figure C-101
Scairt Woman Field – Existing Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



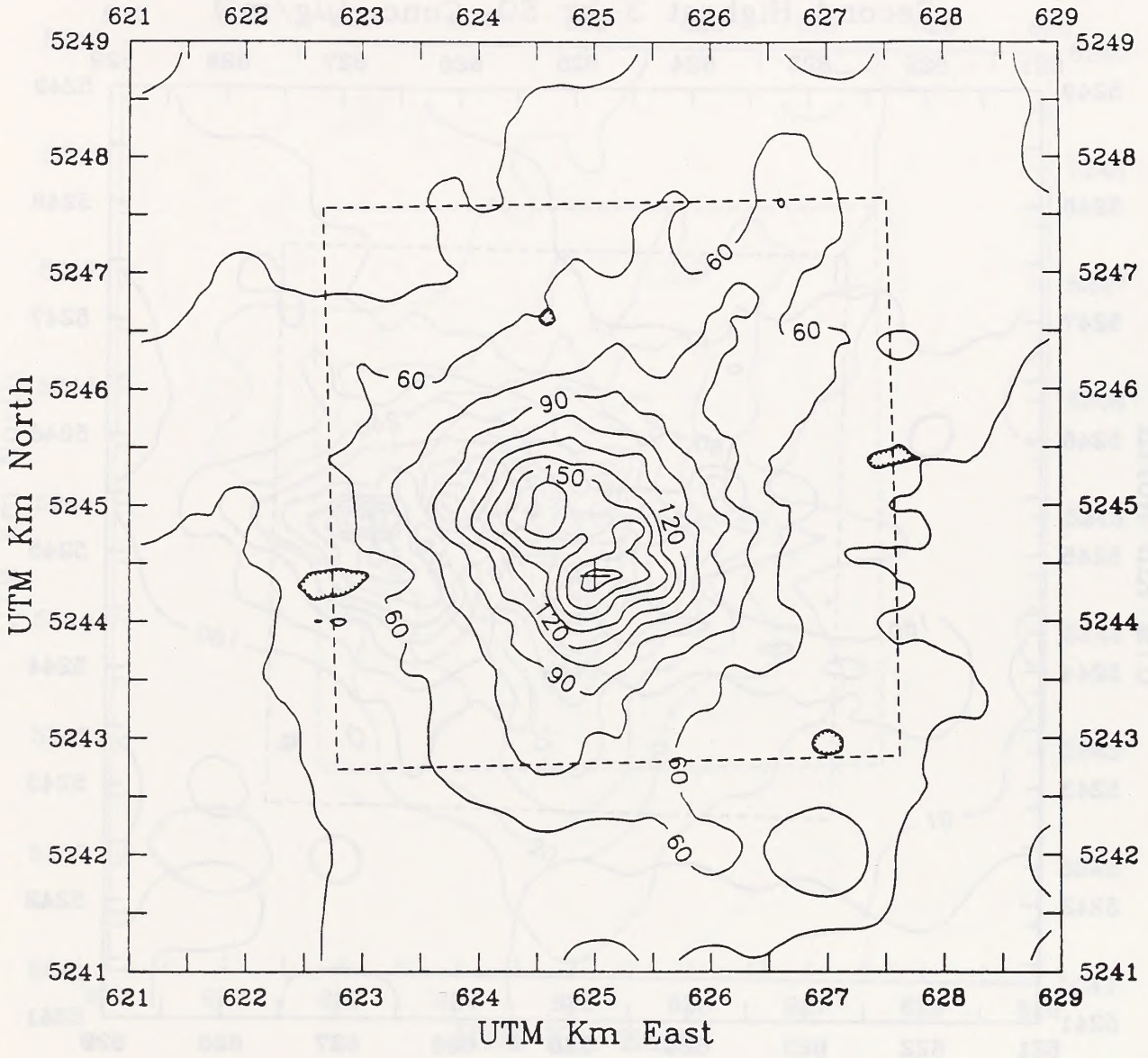
Highest Concentration (+) = 13.3
Ambient Air Quality Standard = 60 Contour Interval = 0.6

Figure C-102
Scairt Woman Field – Future Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



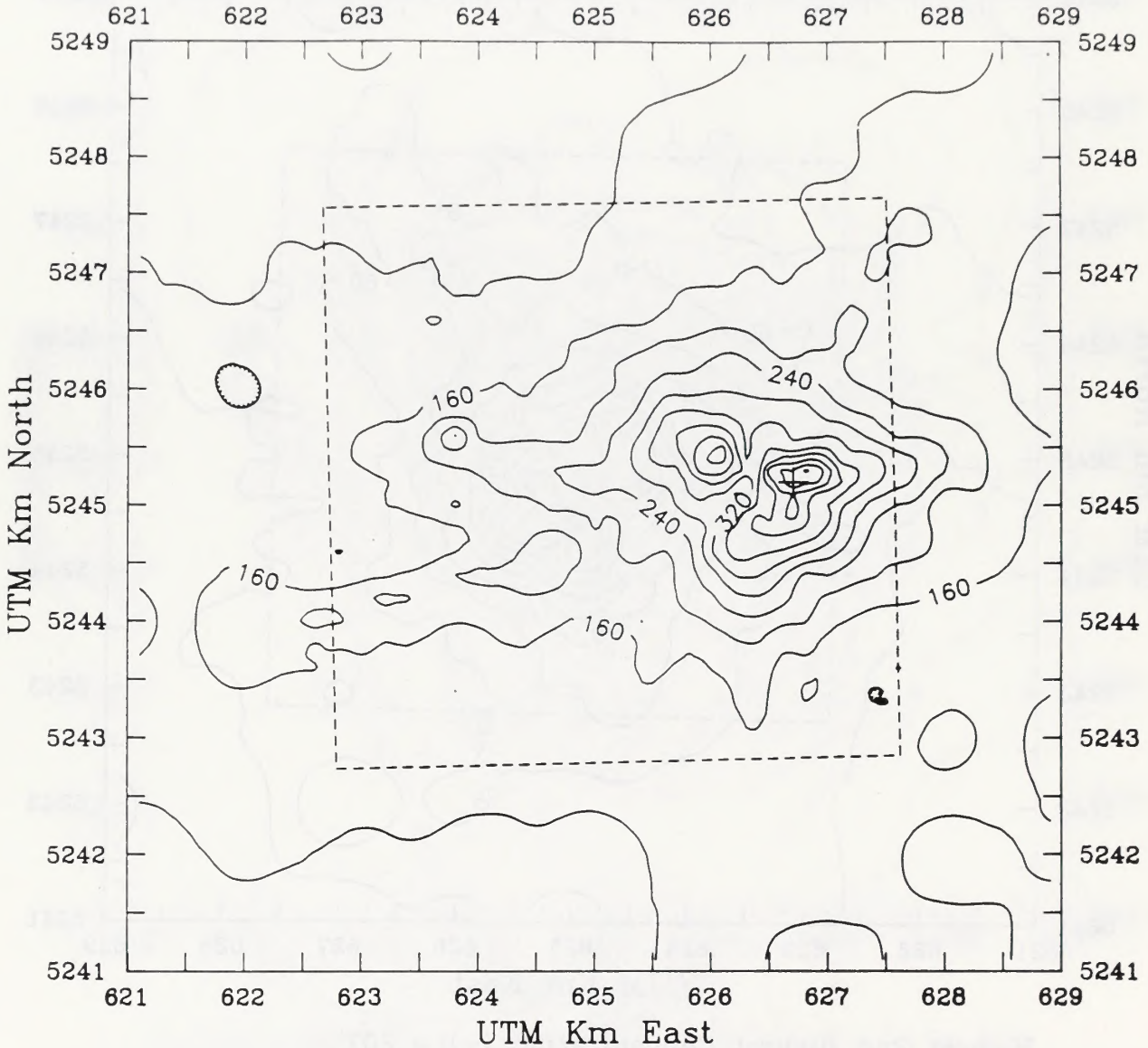
Highest Concentration (+) = 29
Ambient Air Quality Standard = 60 Contour Interval = 1.5

Figure C-103
Scairt Woman Field - Existing PSD Class II Scen.
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



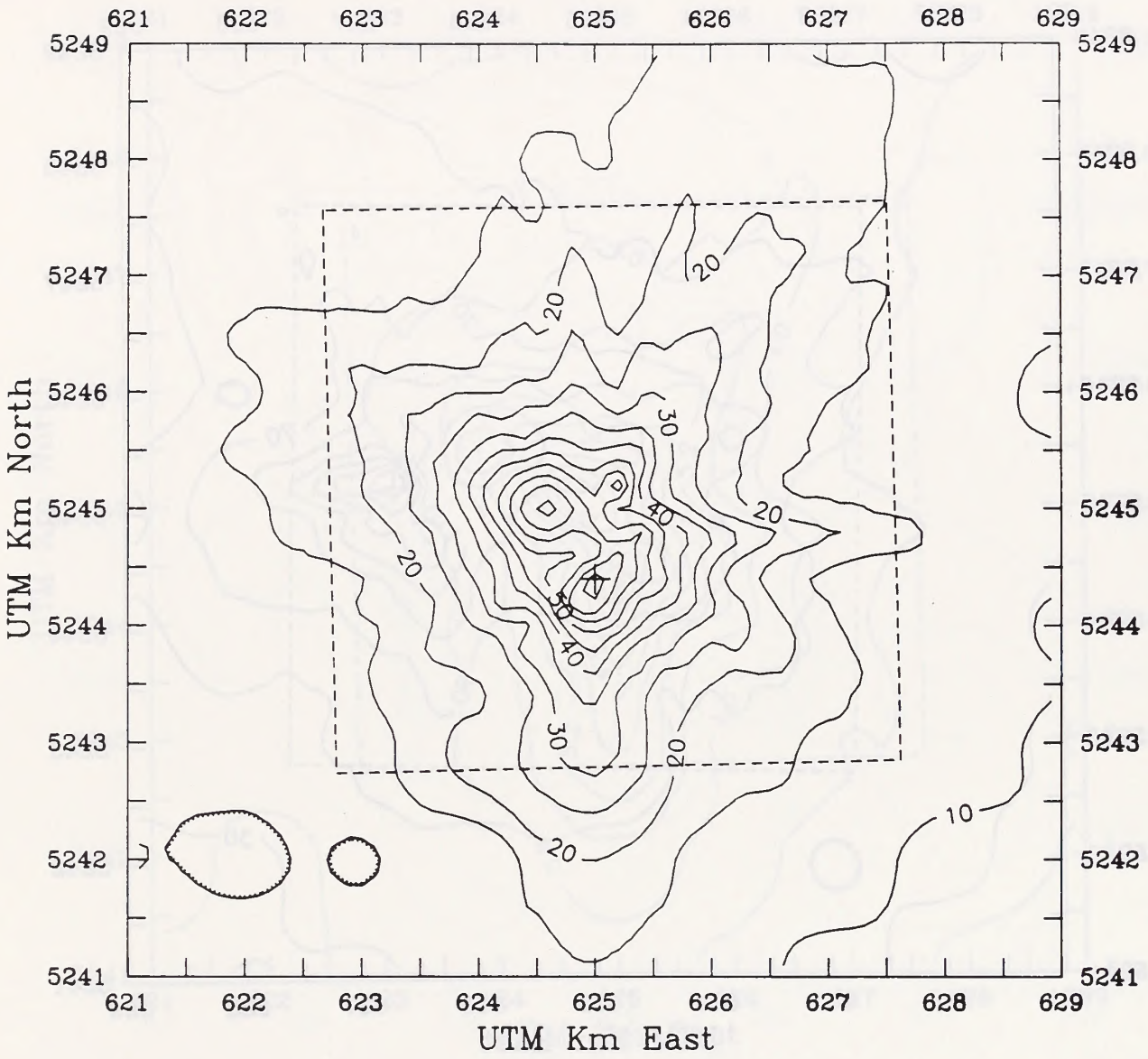
Highest 2nd Highest Concentration (+) = 207
PSD Class II Increment = 512 Contour Interval = 15

Figure C-104
Scairt Woman Field - Future PSD Class II Scen.
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



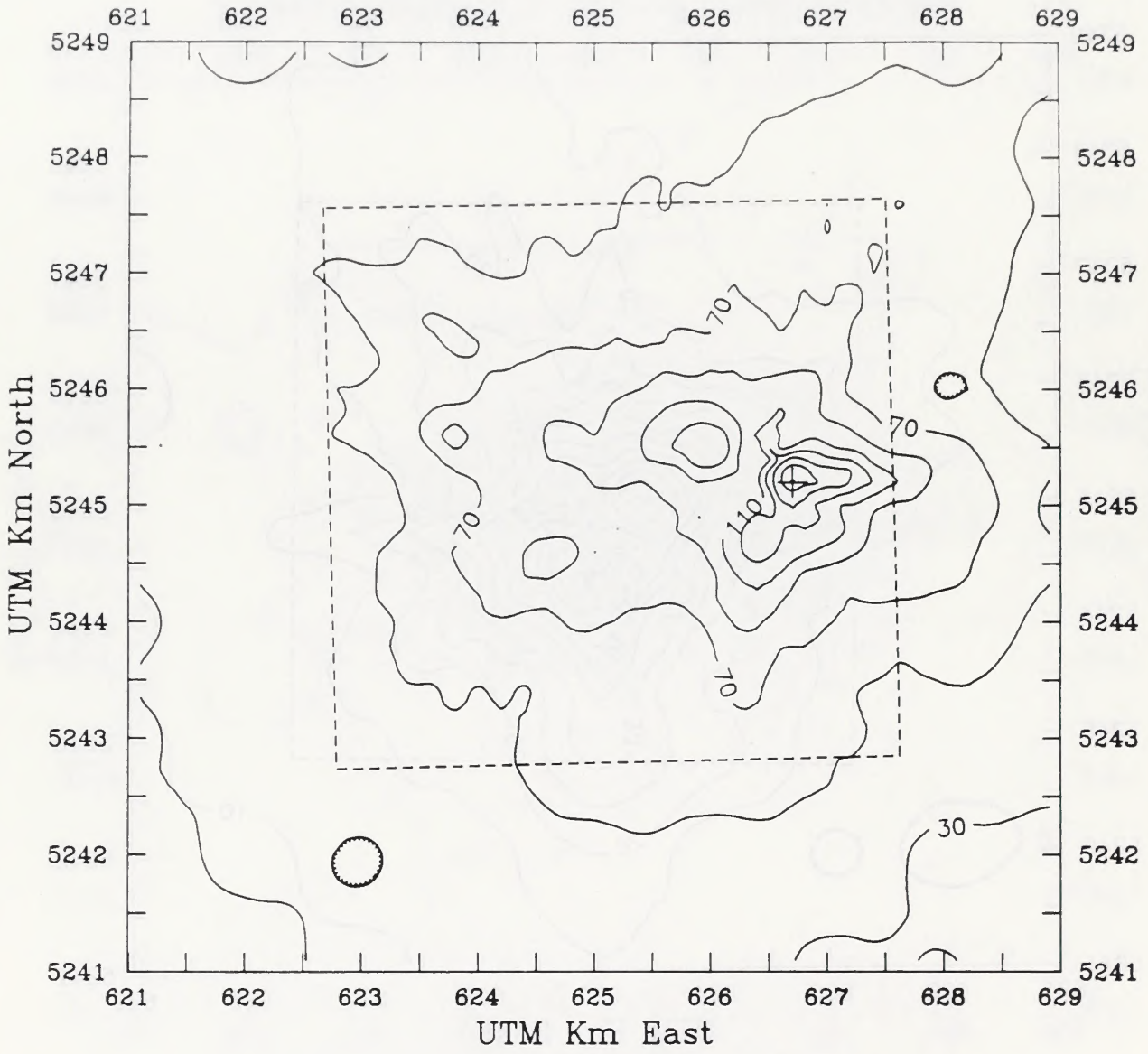
Highest 2nd Highest Concentration (+) = 599
PSD Class II Increment = 512 Contour Interval = 40

Figure C-105
Scairt Woman Field - Existing PSD Class II Scen.
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



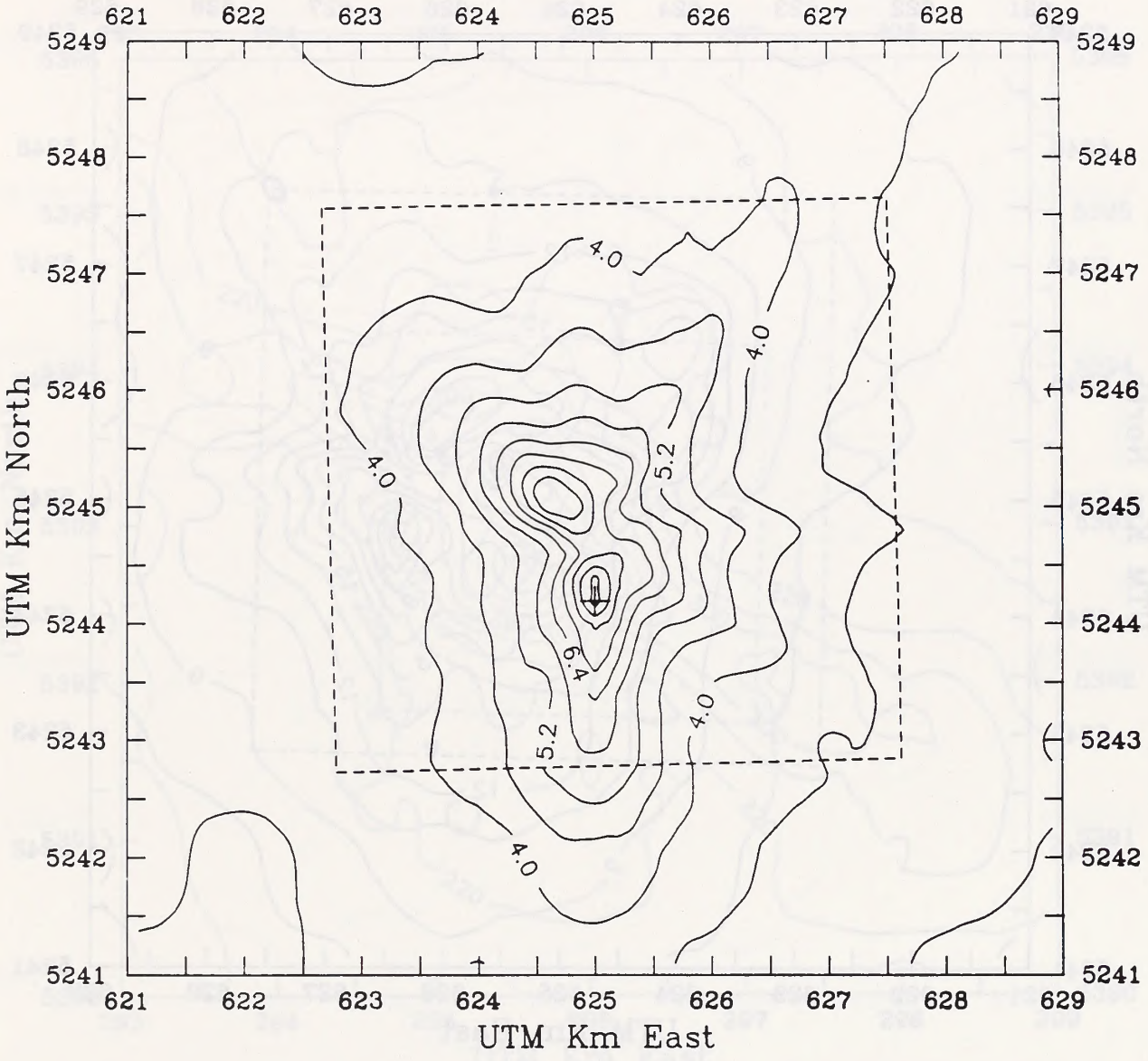
Highest 2nd Highest Concentration (+) = 77
PSD Class II Increment = 91 Contour Interval = 5

Figure C-106
Scairt Woman Field - Future PSD Class II Scen.
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



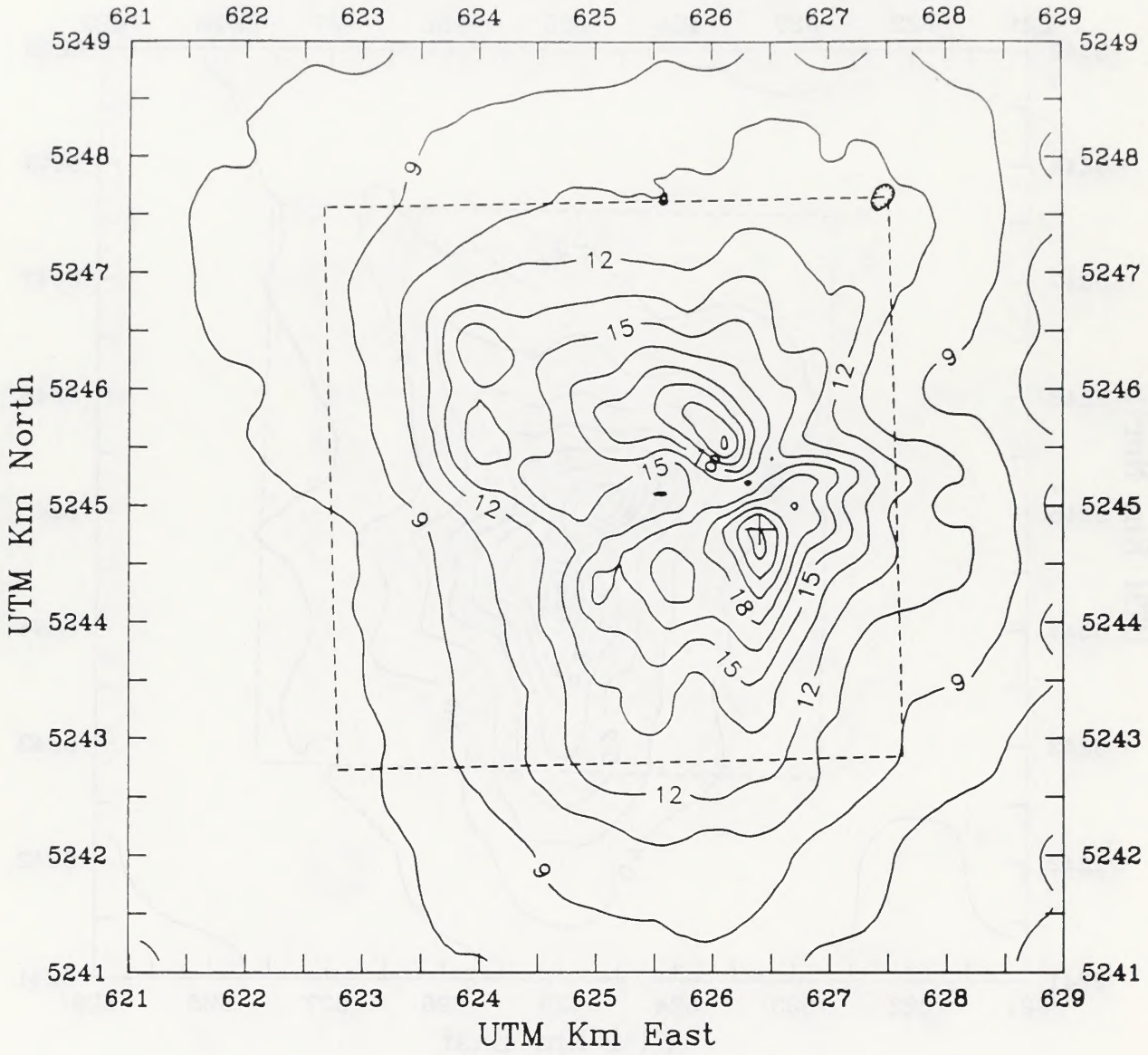
Highest 2nd Highest Concentration (+) = 226
PSD Class II Increment = 91 Contour Interval = 20

Figure C-107
Scairt Woman Field - Existing PSD Class II Scen.
Annual Average SO_2 Concentrations ($\mu g/m^3$)



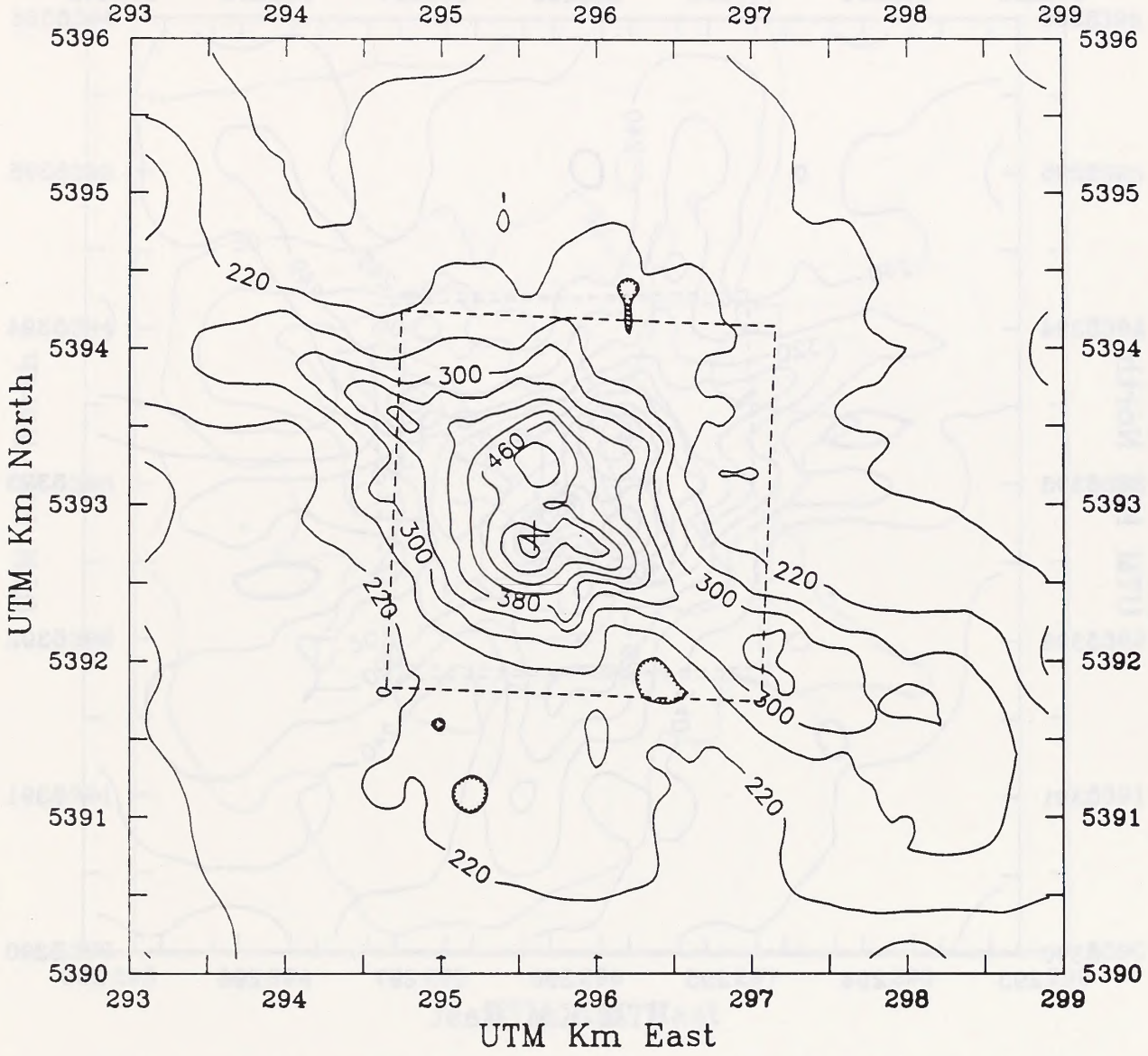
Highest Concentration (+) = 10.2
PSD Class II Increment = 15
Contour Interval = 0.6

Figure C-108
Scairt Woman Field - Future PSD Class II Scen.
Annual Average SO_2 Concentrations ($\mu g/m^3$)



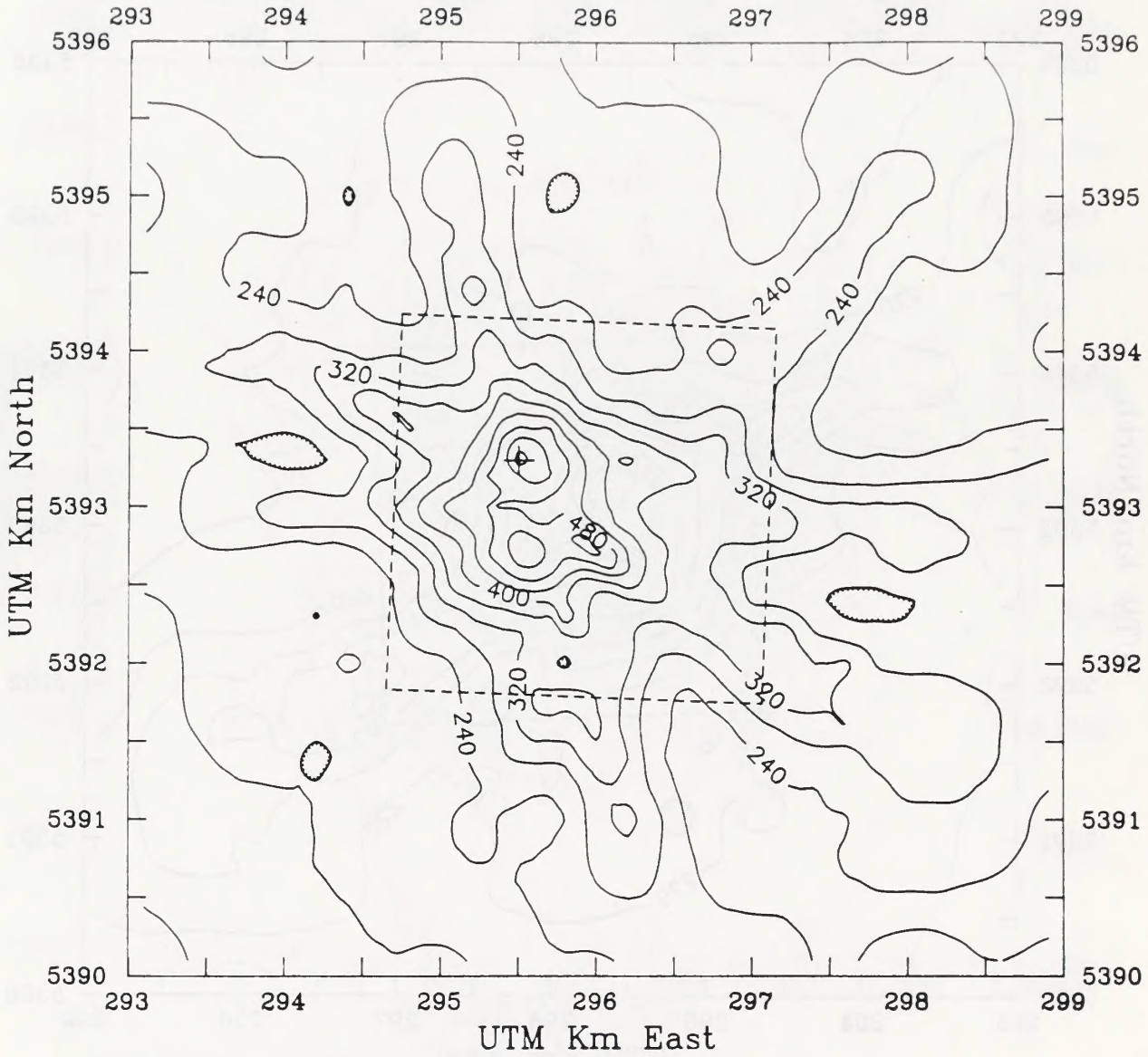
Highest Concentration (+) = 26
PSD Class II Increment = 15 Contour Interval = 1.5

Figure C-109
Smith Field - Existing Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



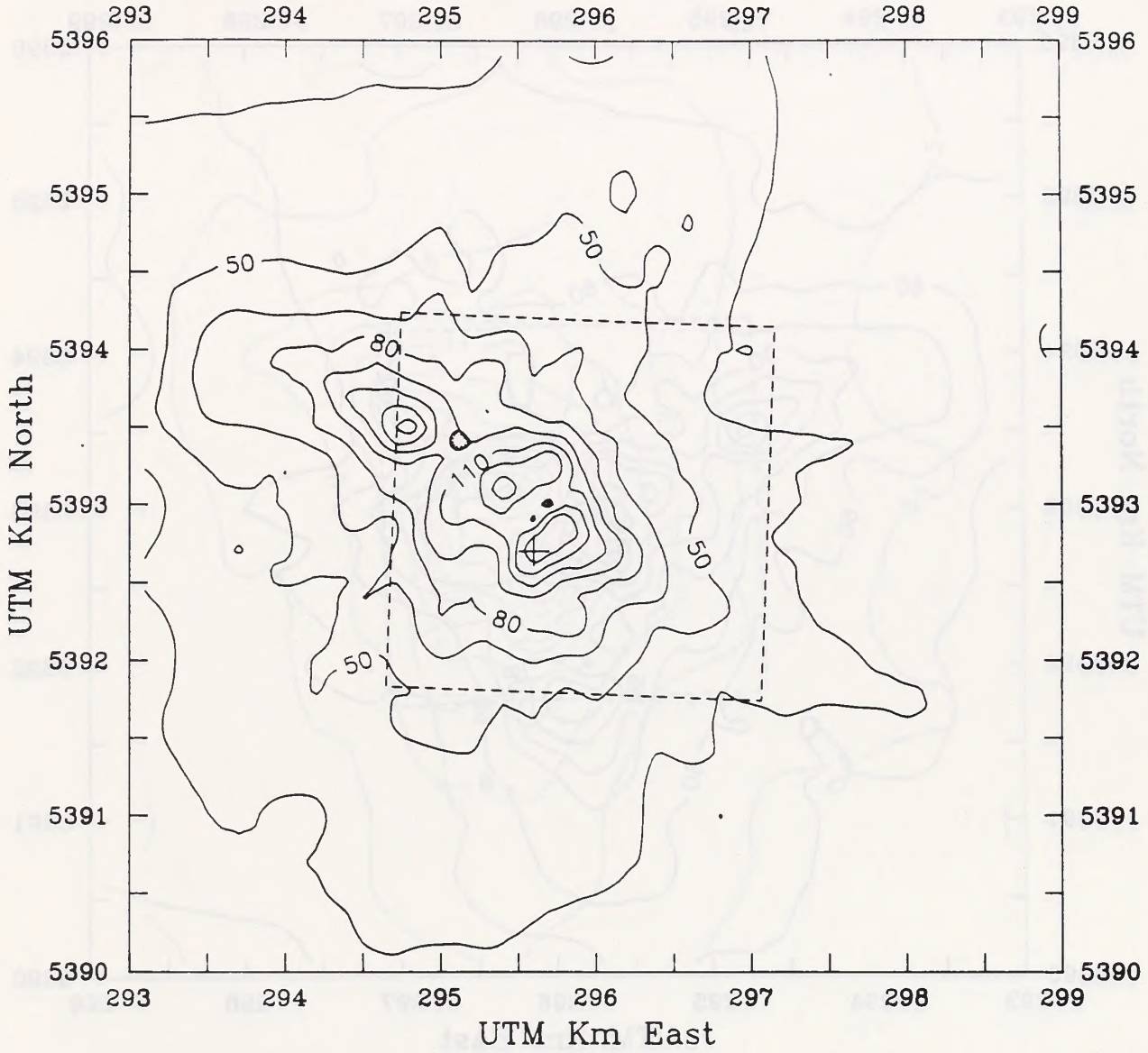
Highest Concentration (+) = 626
Ambient Air Quality Standard = 715 Contour Interval = 40

Figure C-110
Smith Field - Future Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



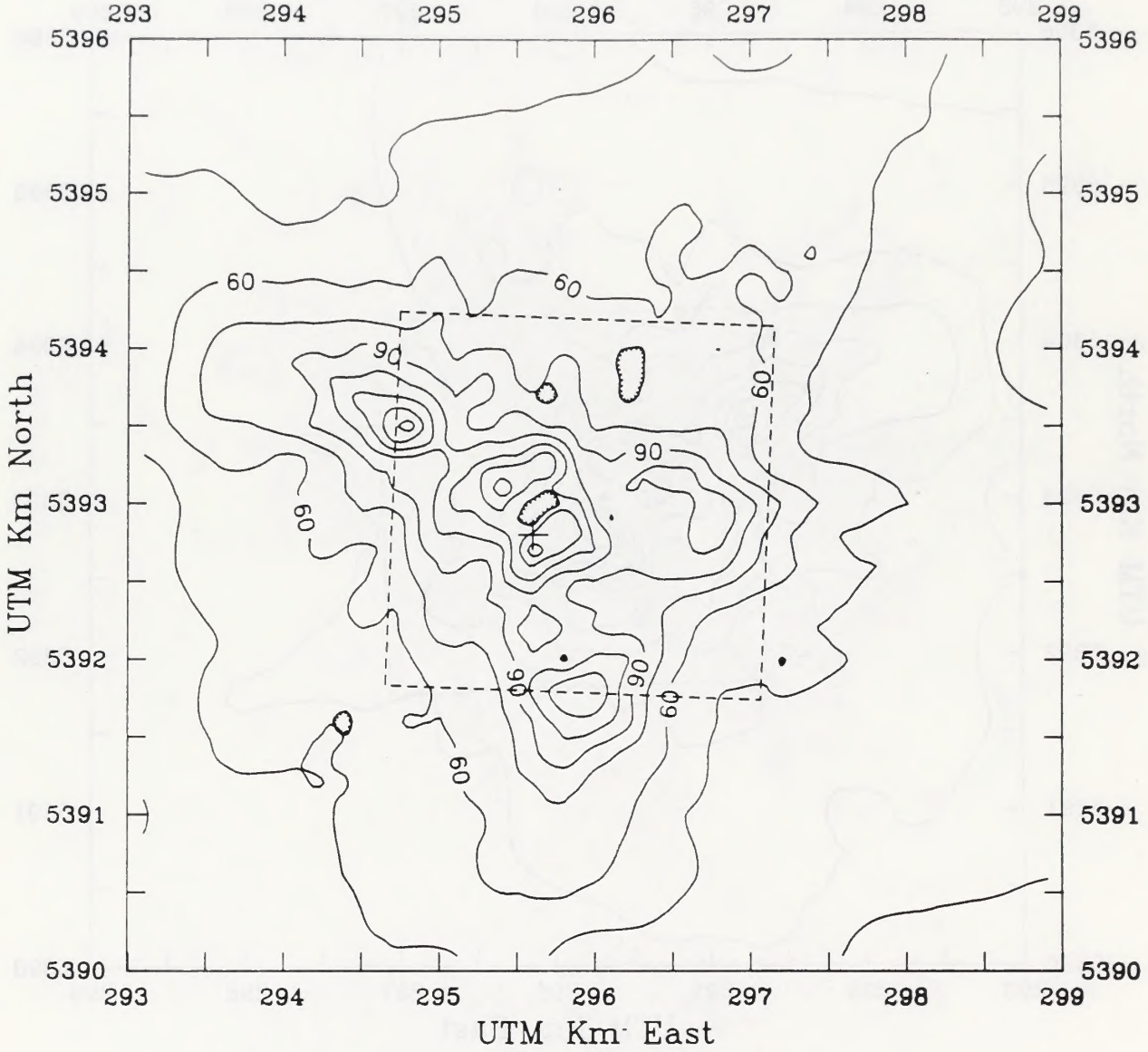
Highest Concentration (+) = 670
Ambient Air Quality Standard = 715 Contour Interval = 40

Figure C-111
Smith Field - Existing Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



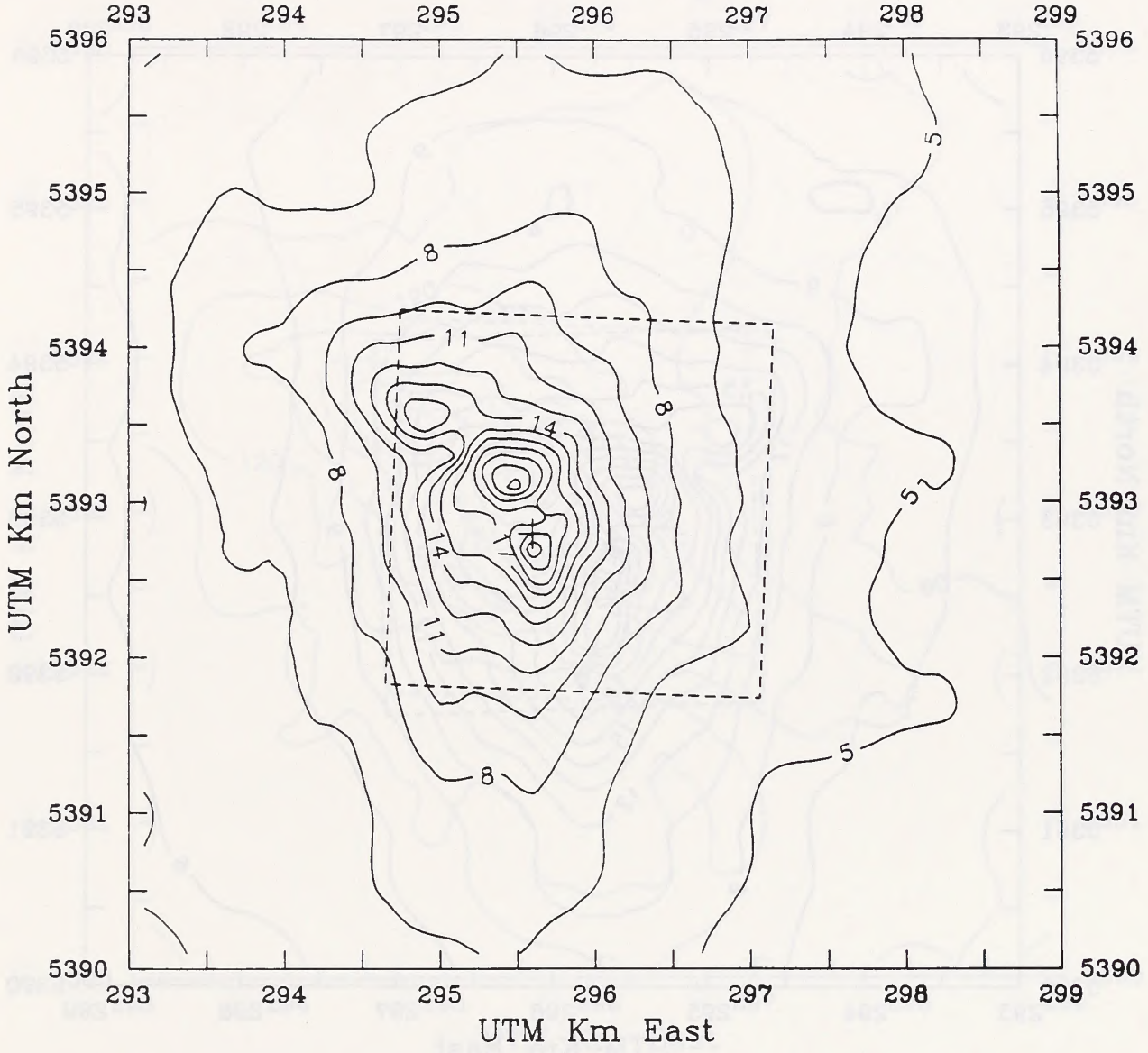
Highest Concentration (+) = 197
Ambient Air Quality Standard = 260 Contour Interval = 15

Figure C-112
Smith Field - Future Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



Highest Concentration (+) = 199
Ambient Air Quality Standard = 260 Contour Interval = 15

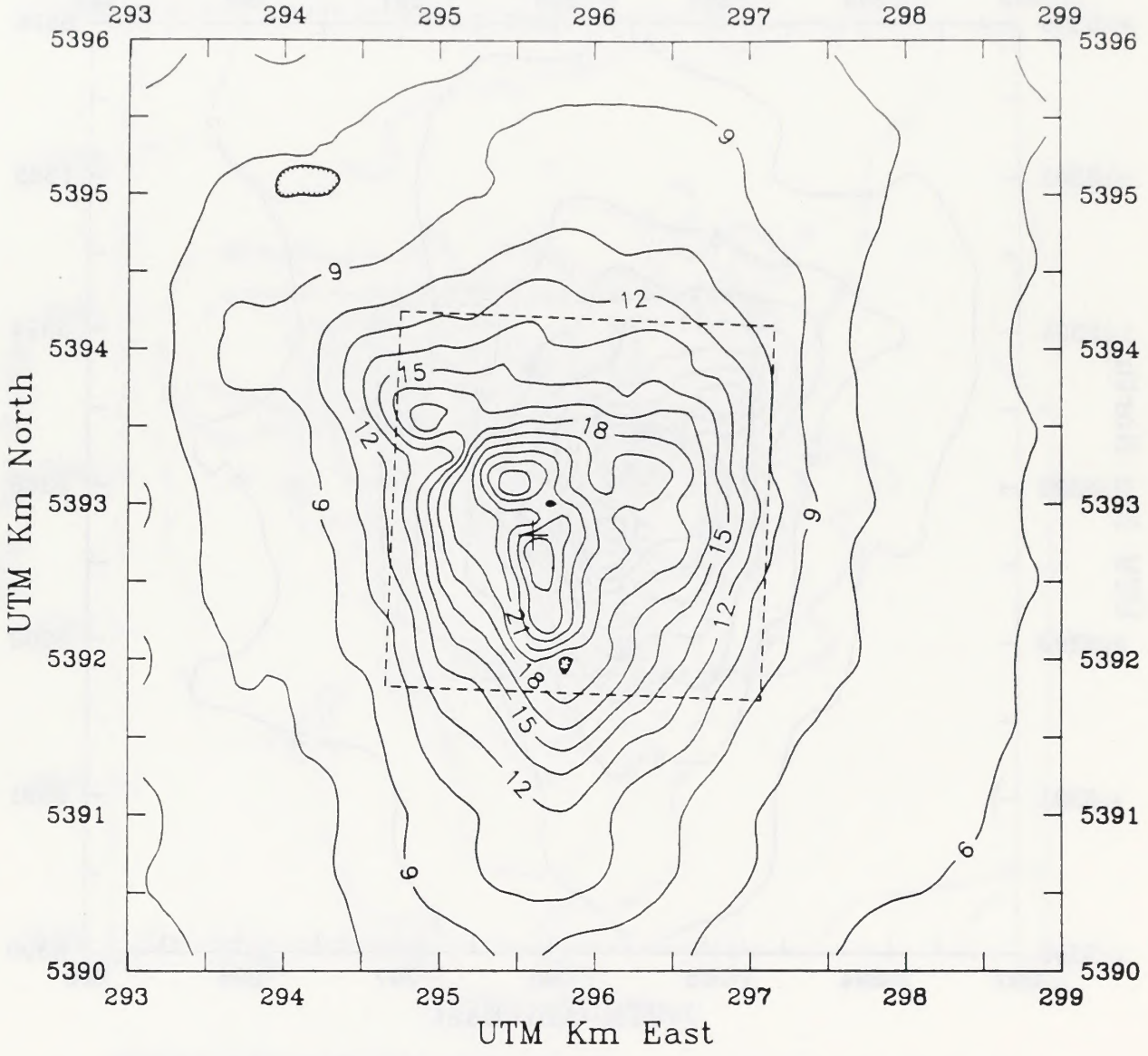
Figure C-113
Smith Field - Existing Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



Highest Concentration (+) = 29

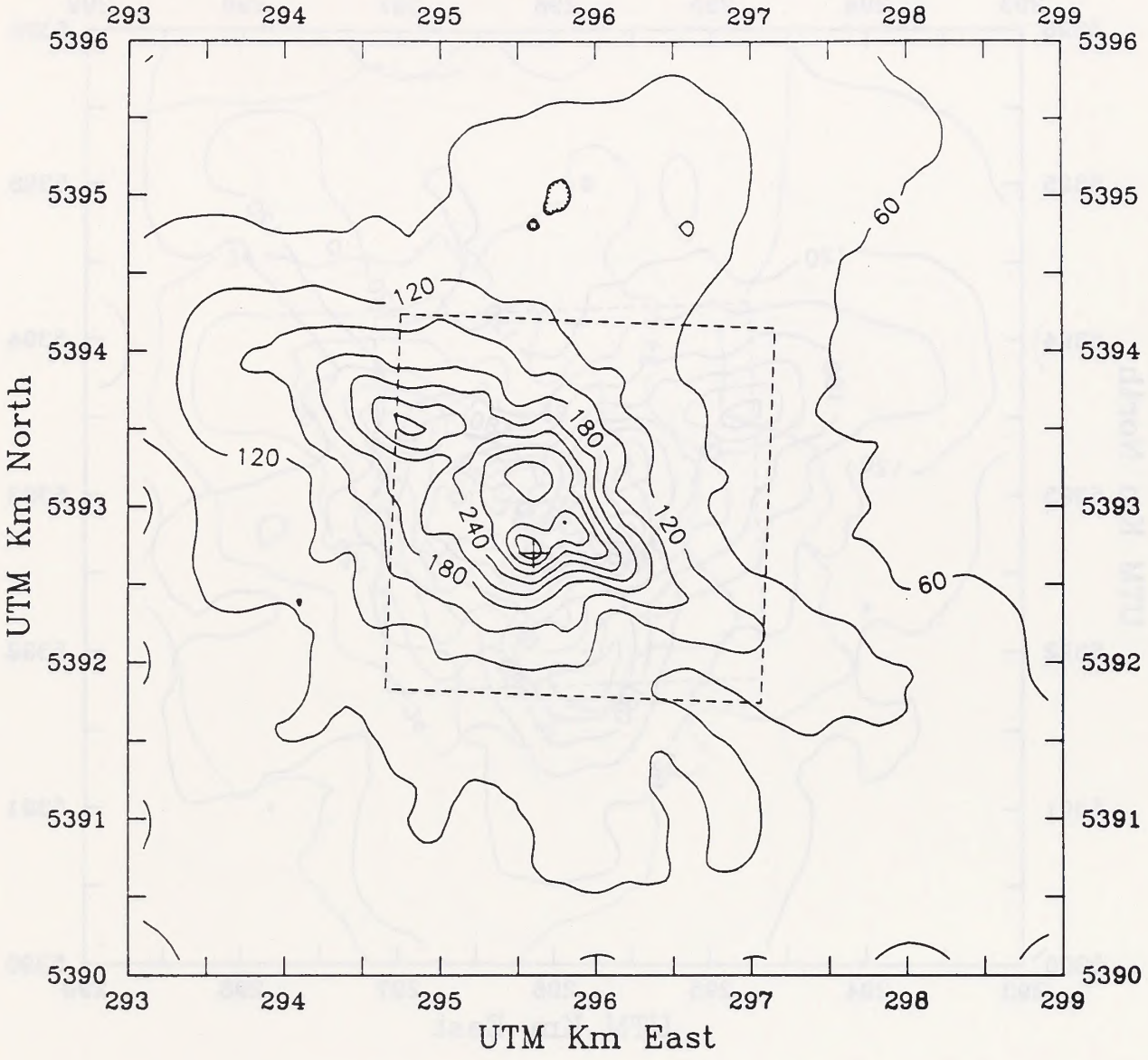
Ambient Air Quality Standard = 60 **Contour Interval = 1.5**

Figure C-114
Smith Field - Future Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



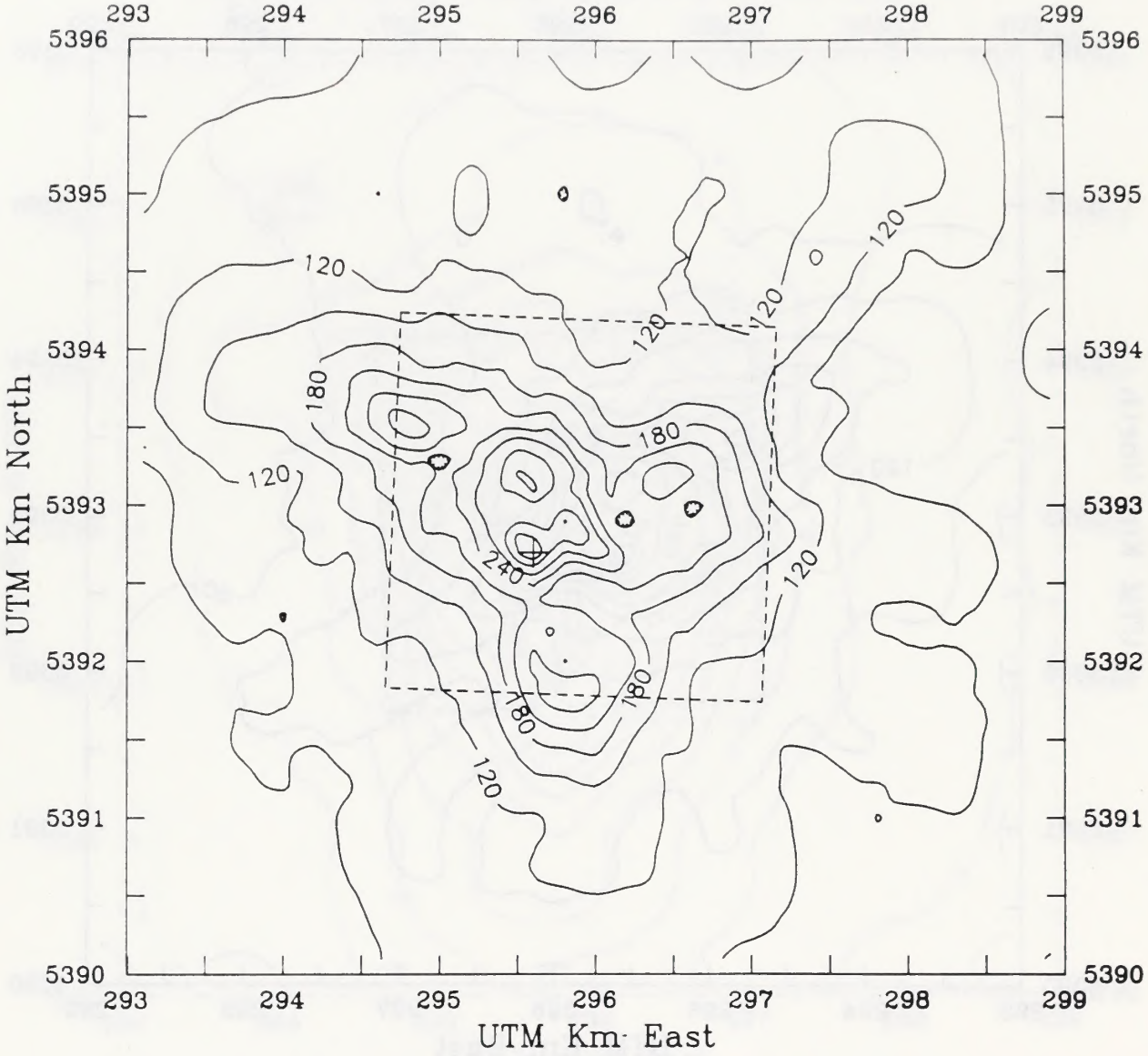
Highest Concentration (+) = 33
Ambient Air Quality Standard = 60 Contour Interval = 1.5

Figure C-115
Smith Field - Existing PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



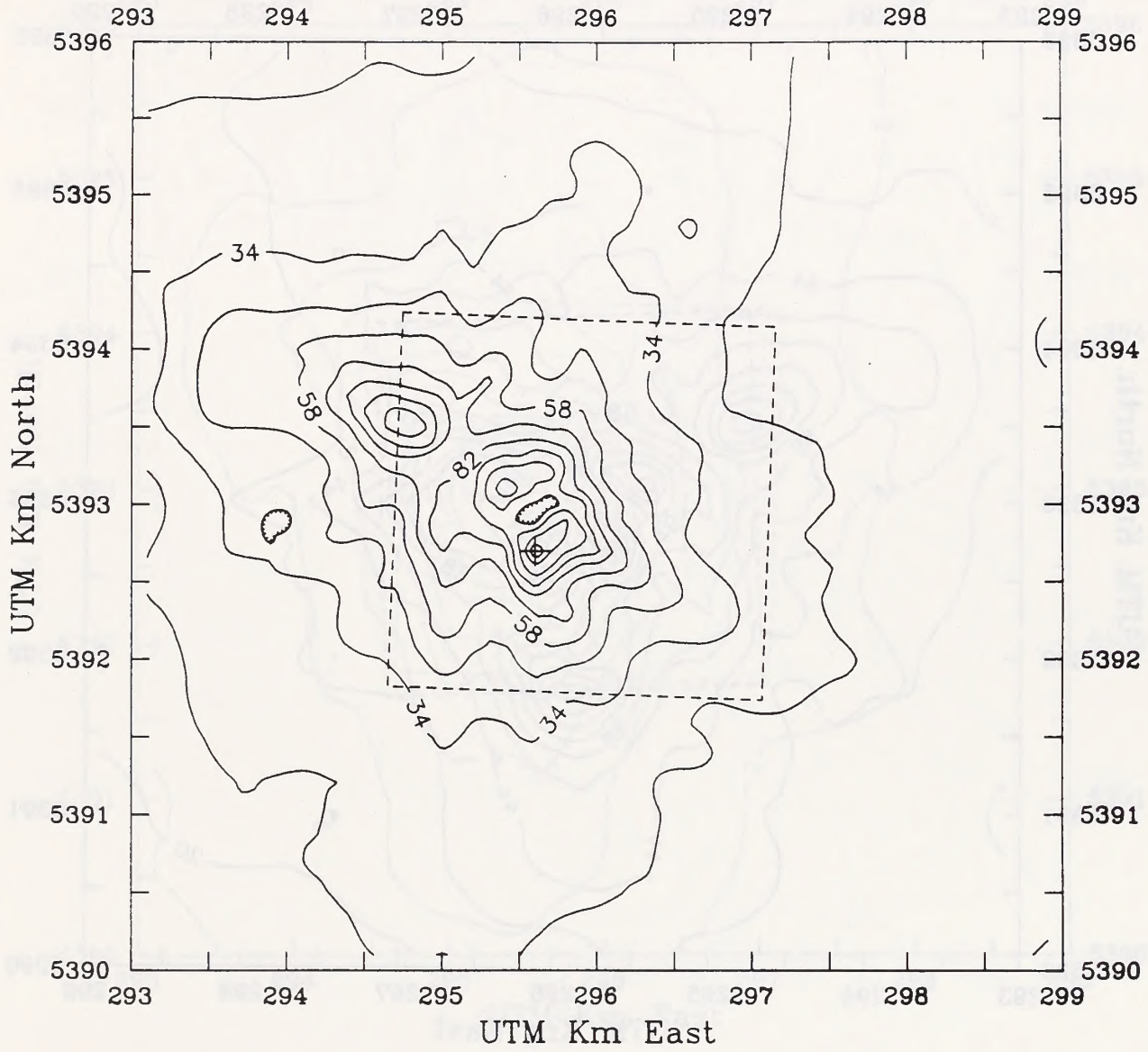
Highest 2nd Highest Concentration (+) = 441
PSD Class II Increment = 512 **Contour Interval = 30**

Figure C-116
Smith Field - Future PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



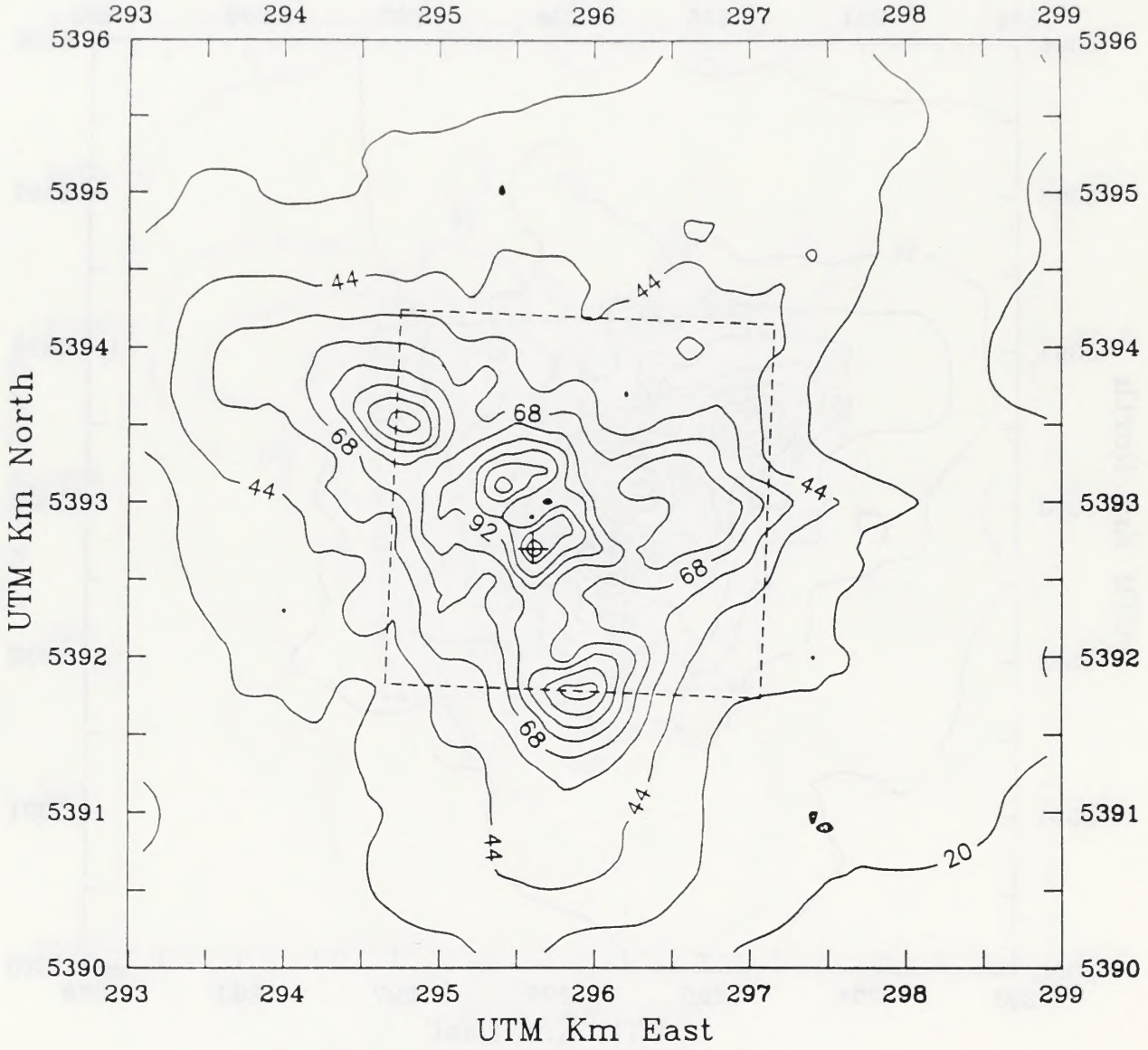
Highest 2nd Highest Concentration (+) = 441
PSD Class II Increment = 512 Contour Interval = 30

Figure C-117
Smith Field - Existing PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



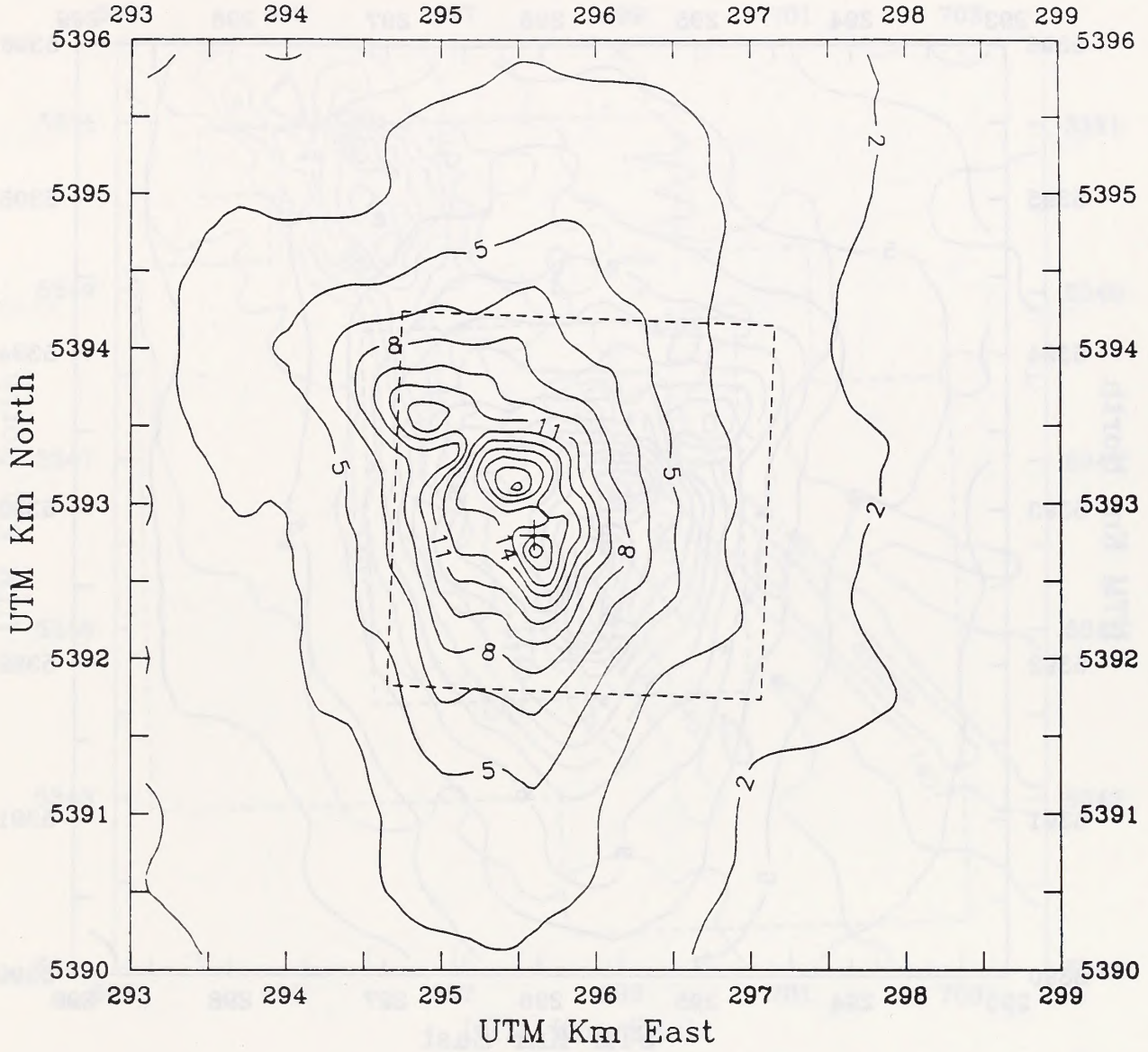
Highest 2nd Highest Concentration (+) = 186
PSD Class II Increment = 91 Contour Interval = 12

Figure C-118
Smith Field - Future PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



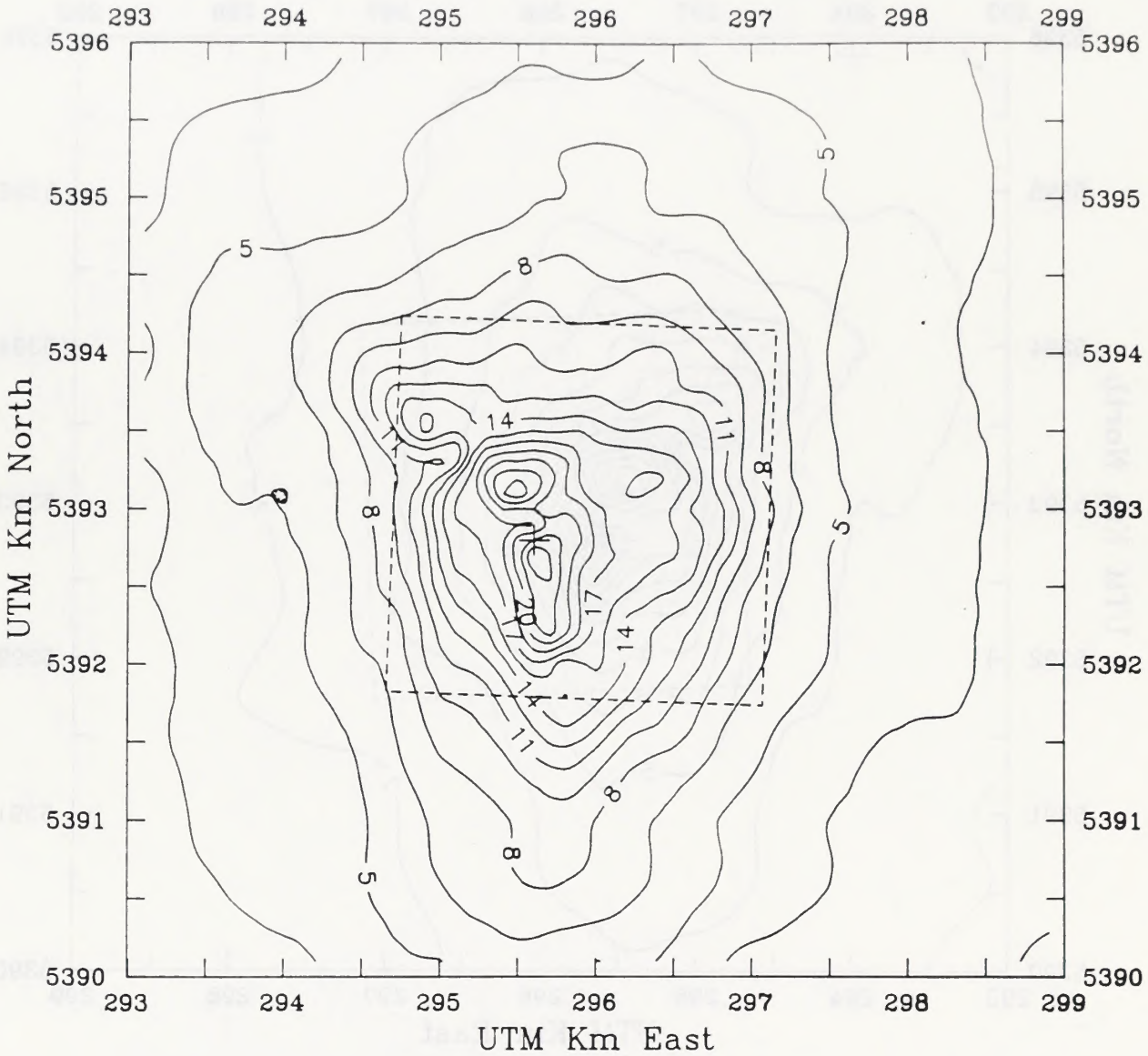
Highest 2nd Highest Concentration (+) = 187
PSD Class II Increment = 91 Contour Interval = 12

Figure C-119
Smith Field – Existing PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



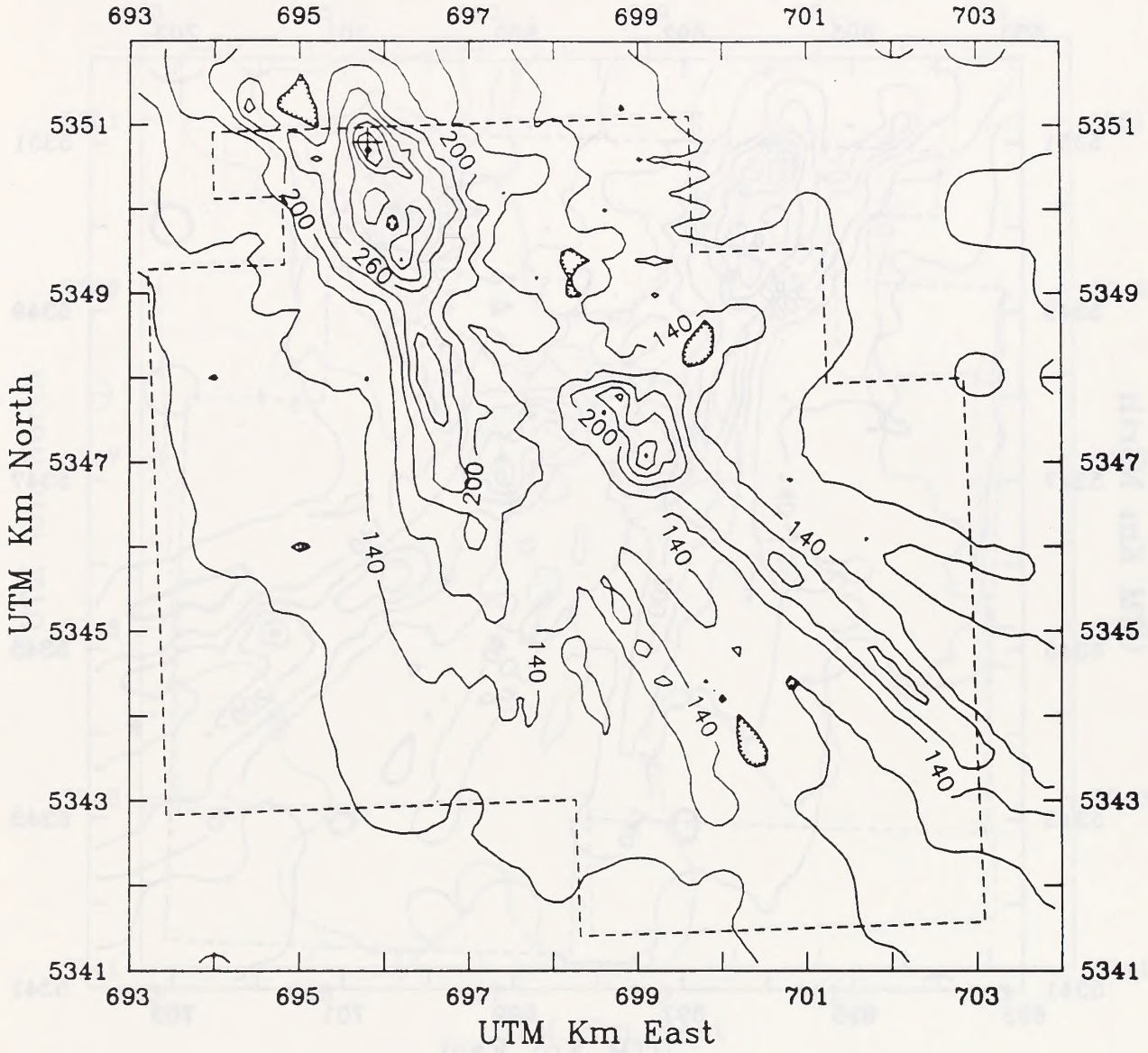
Highest Concentration (+) = 26
PSD Class II Increment = 15 Contour Interval = 1.5

Figure C-120
Smith Field – Future PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



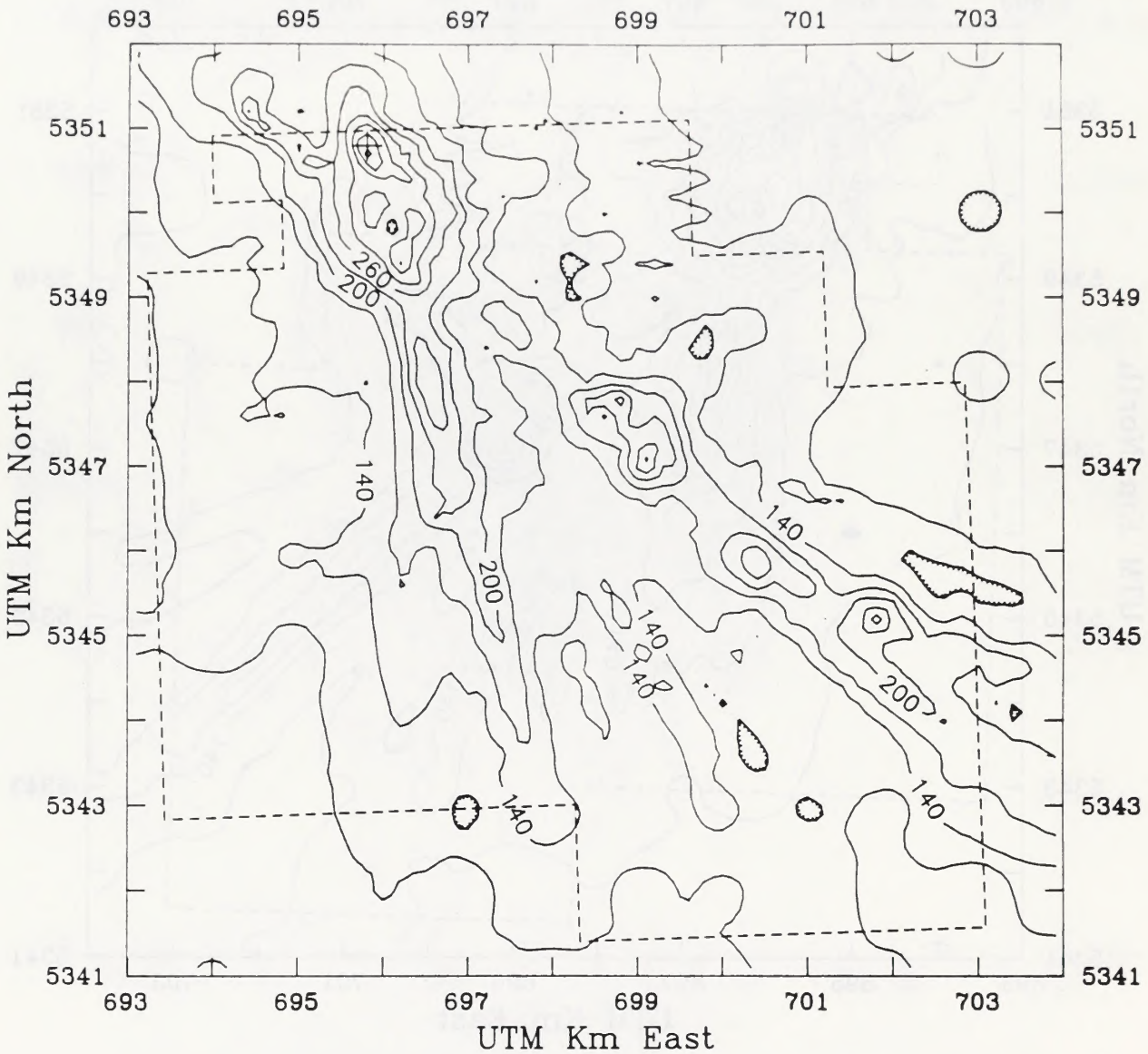
Highest Concentration (+) = 30
PSD Class II Increment = 15 Contour Interval = 1.5

Figure C-121
Stanley Field - Existing Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



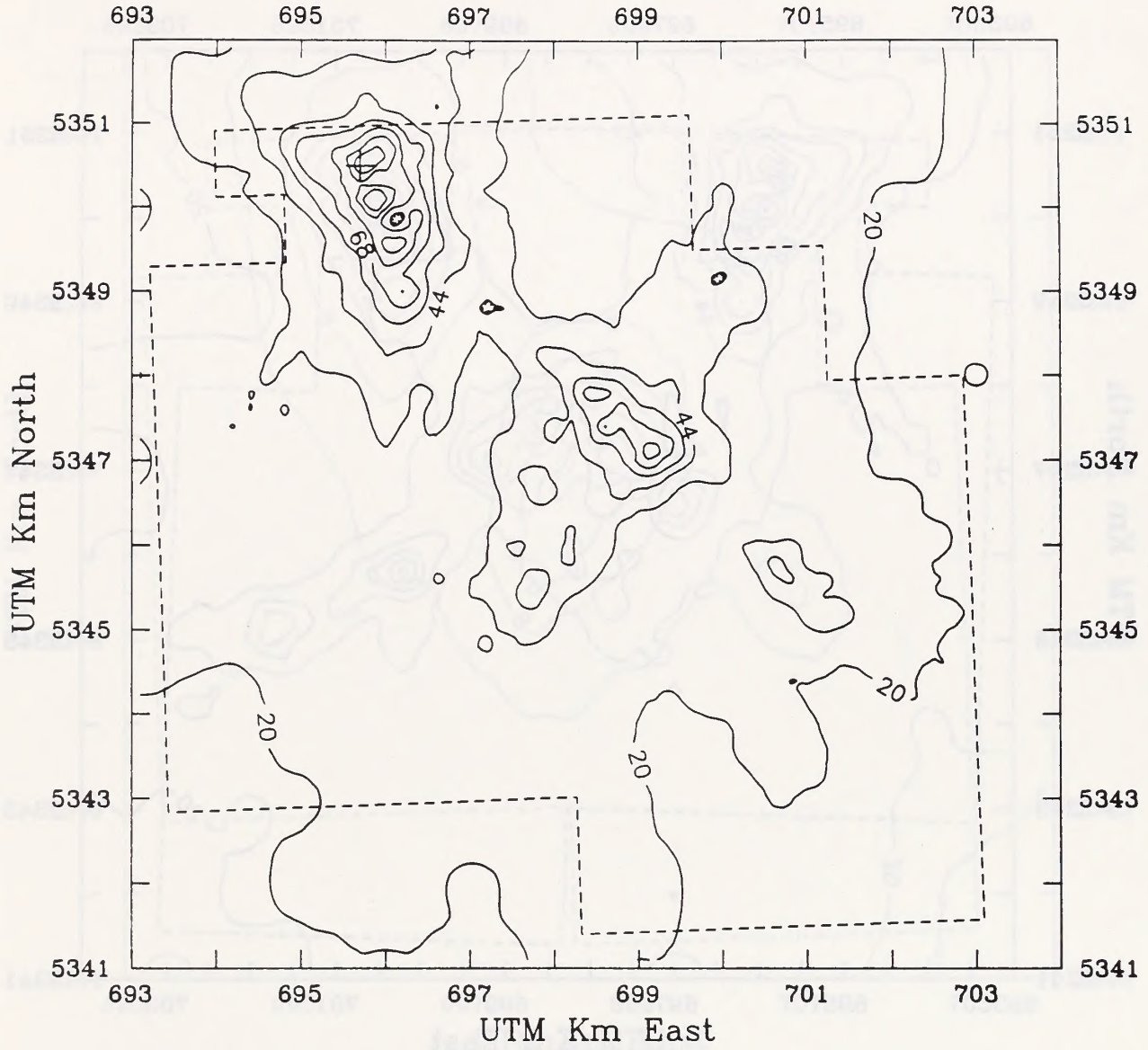
Highest Concentration (+) = 485
Ambient Air Quality Standard = 715 Contour Interval = 30

Figure C-122
Stanley Field - Future Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



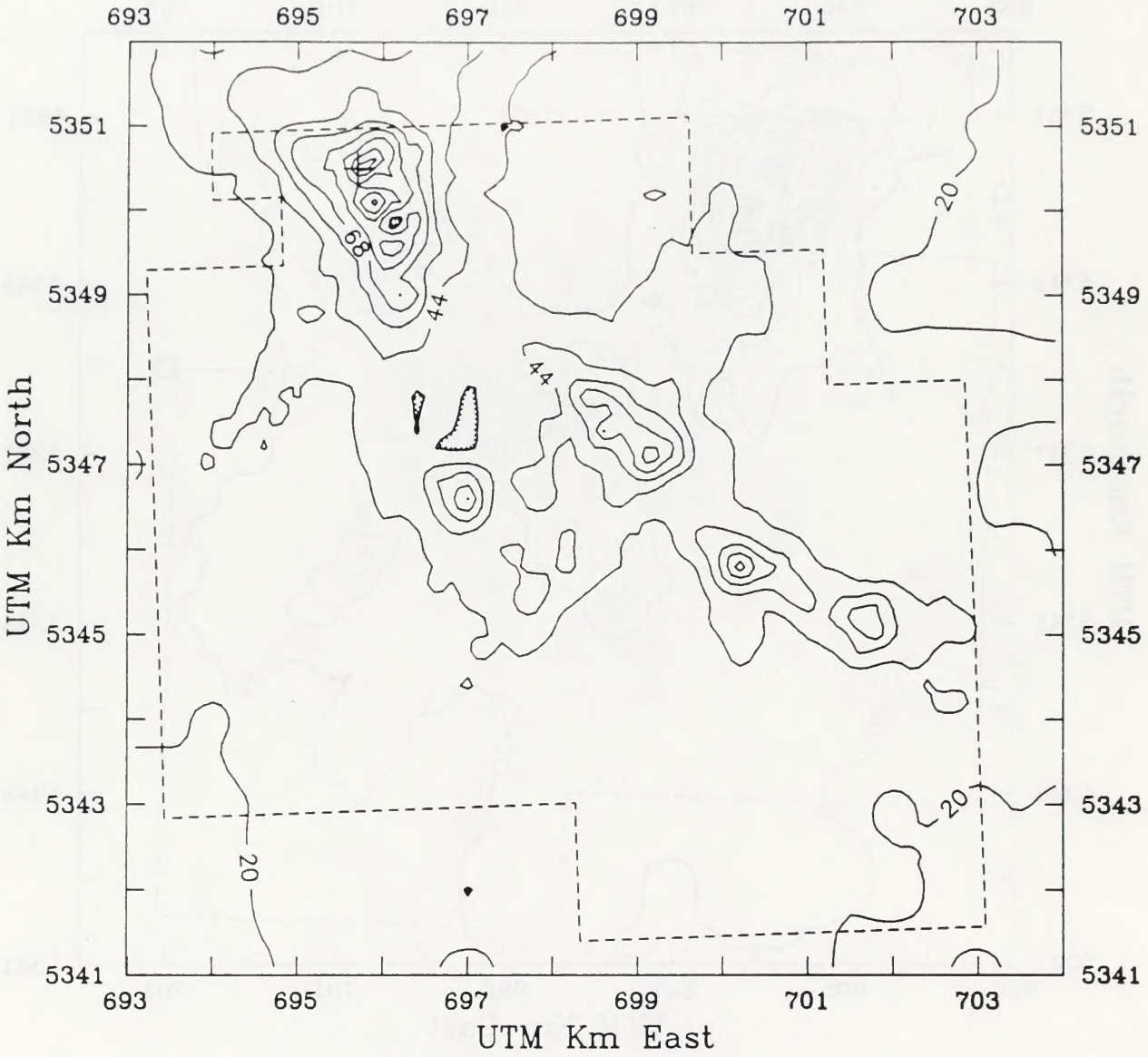
Highest Concentration (+) = 492
Ambient Air Quality Standard = 715 Contour Interval = 30

Figure C-123
Stanley Field - Existing Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



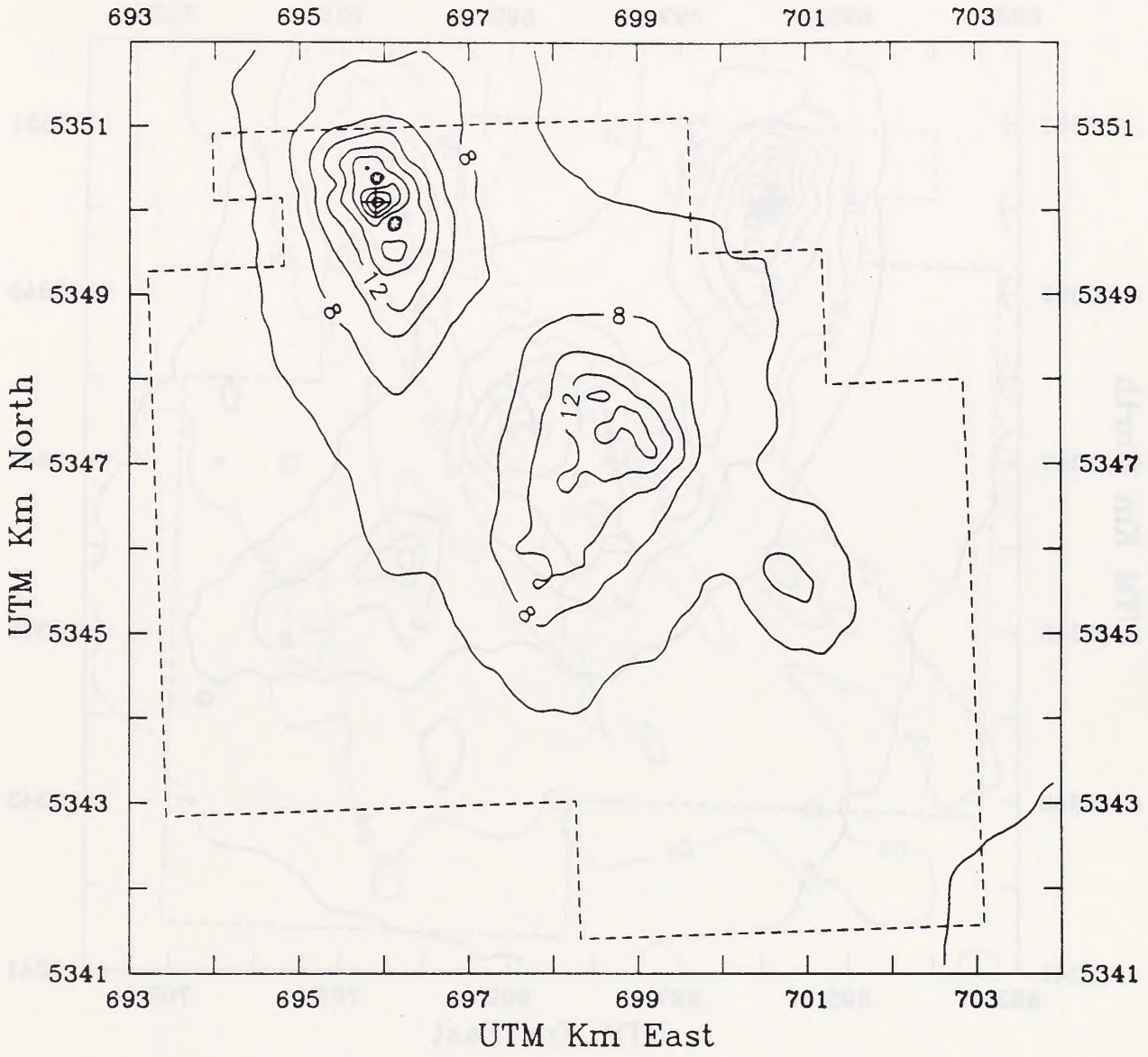
Highest Concentration (+) = 141
Ambient Air Quality Standard = 260 Contour Interval = 12

Figure C-124
Stanley Field - Future Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



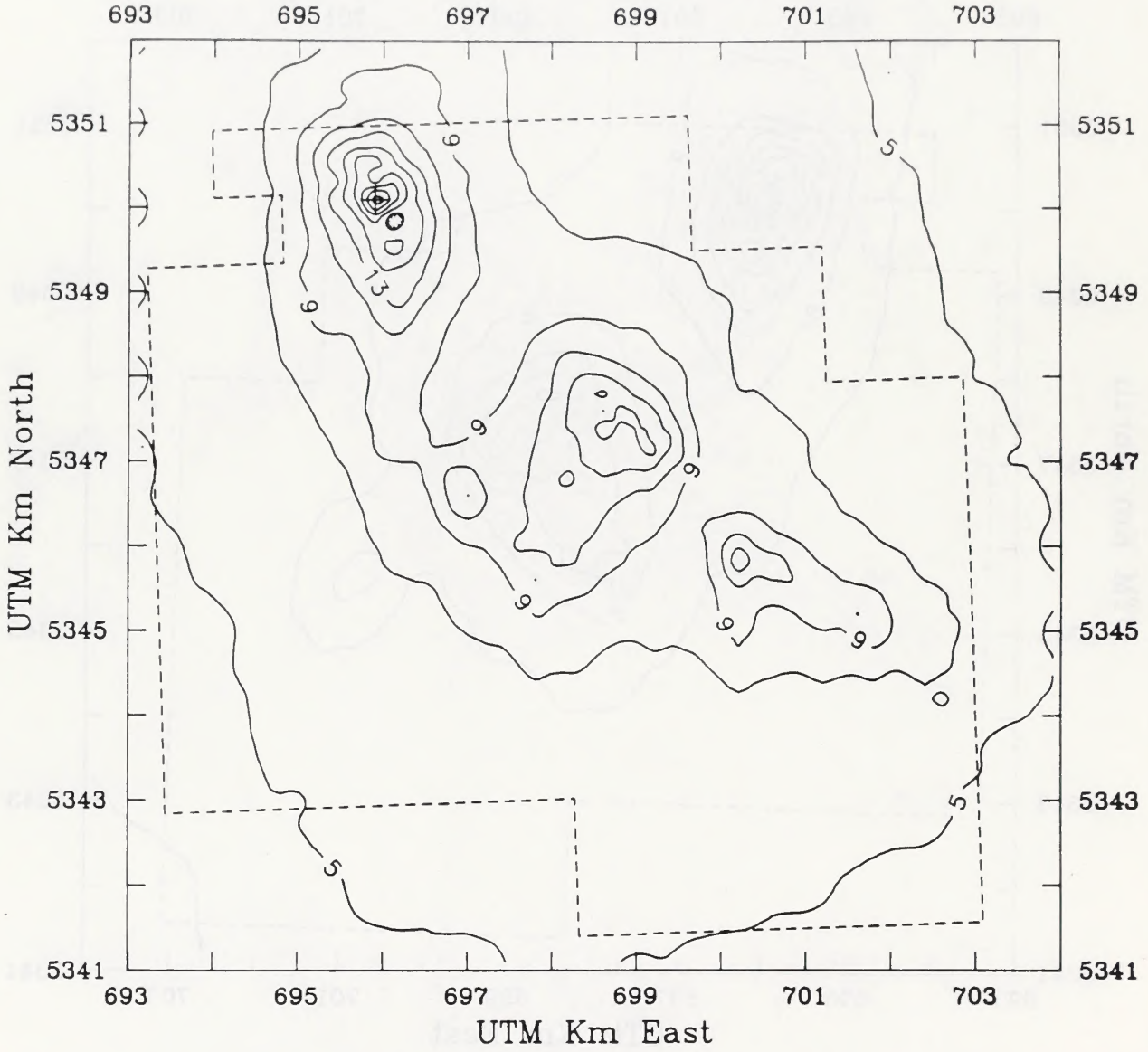
Highest Concentration (+) = 141
Ambient Air Quality Standard = 260 Contour Interval = 12

Figure C-125
Stanley Field - Existing Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



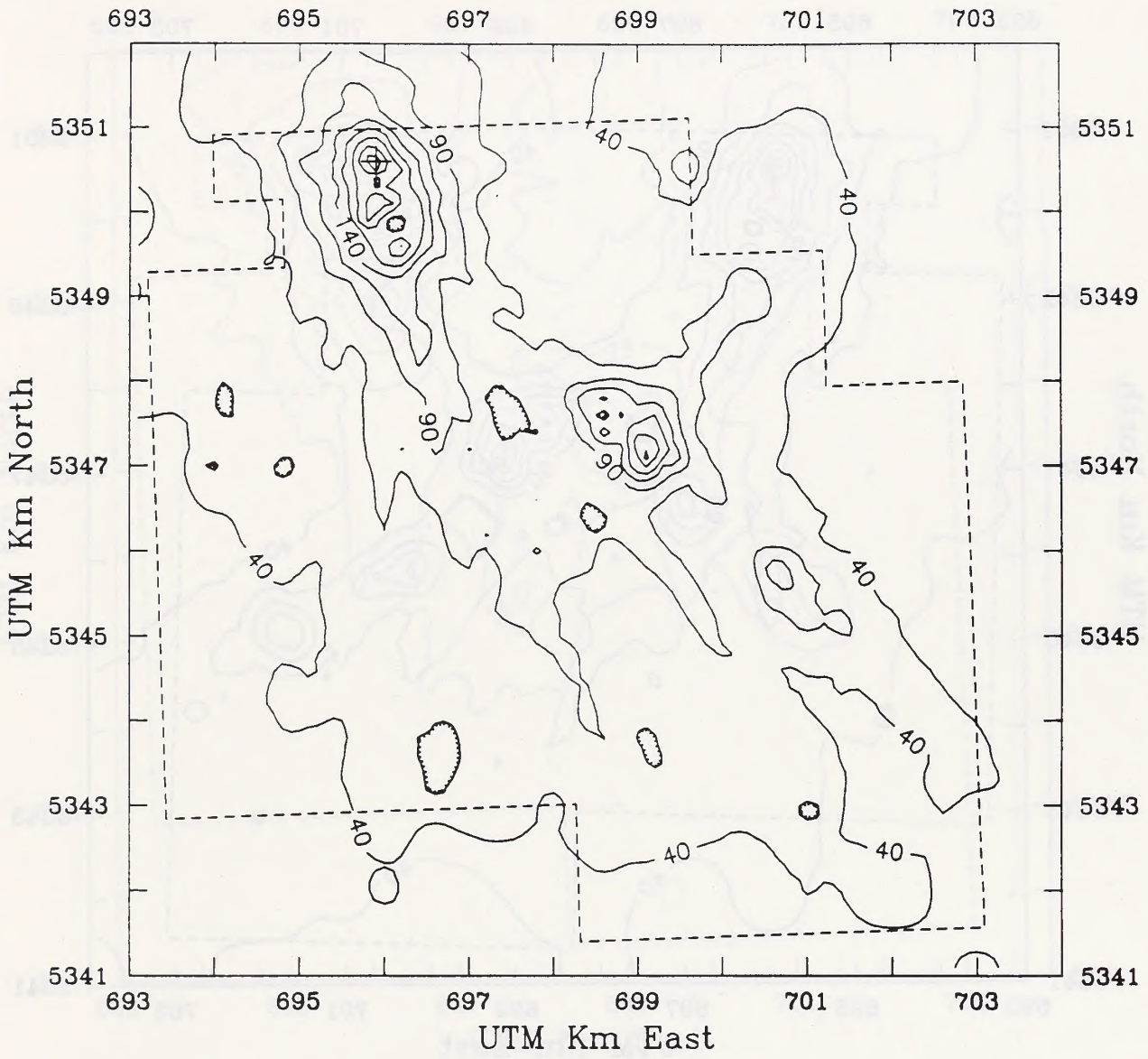
Highest Concentration (+) = 27
Ambient Air Quality Standard = 60 Contour Interval = 2

Figure C-126
Stanley Field - Future Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



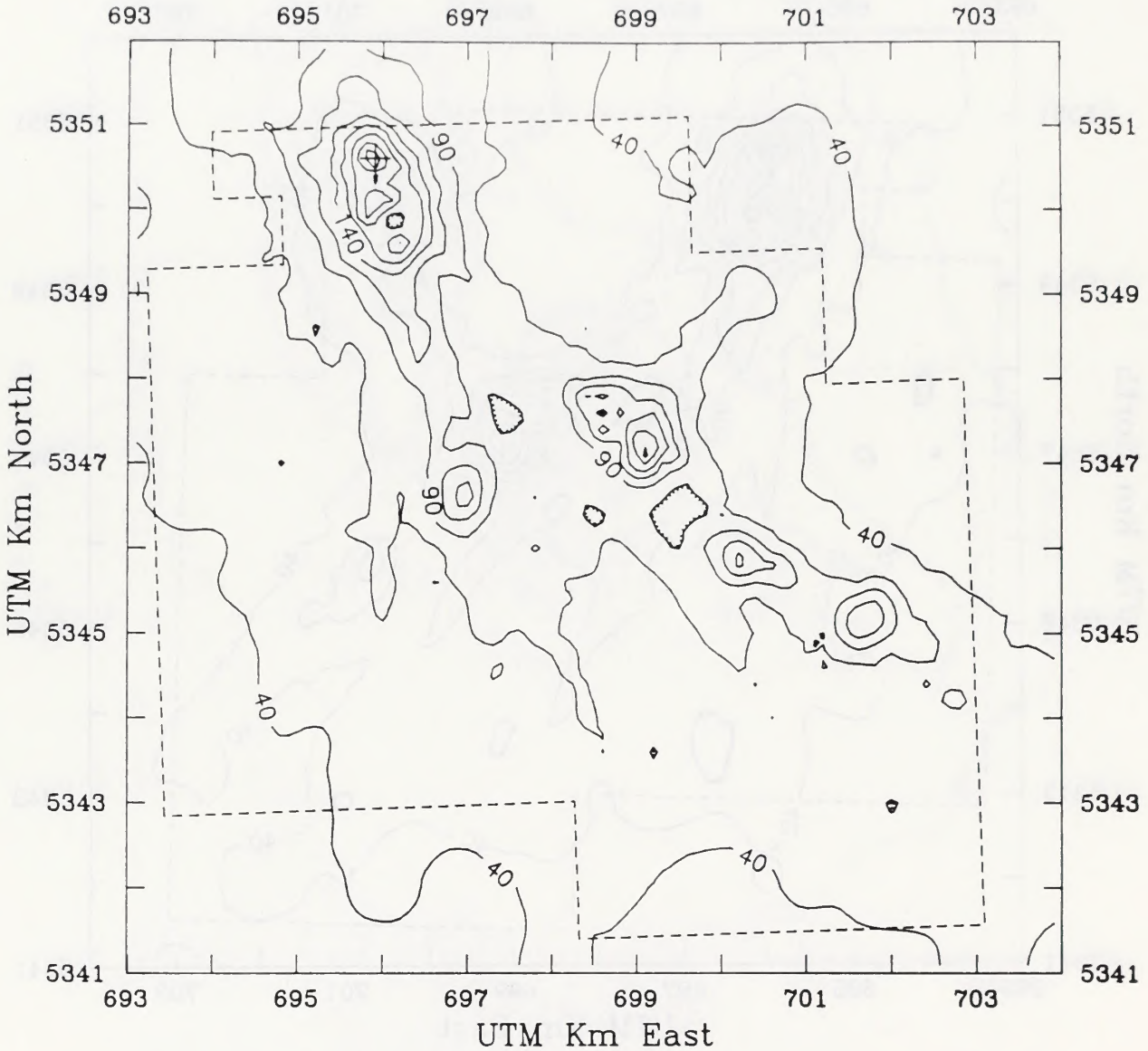
Highest Concentration (+) = 27
Ambient Air Quality Standard = 60 Contour Interval = 2

Figure C-127
Stanley Field - Existing PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



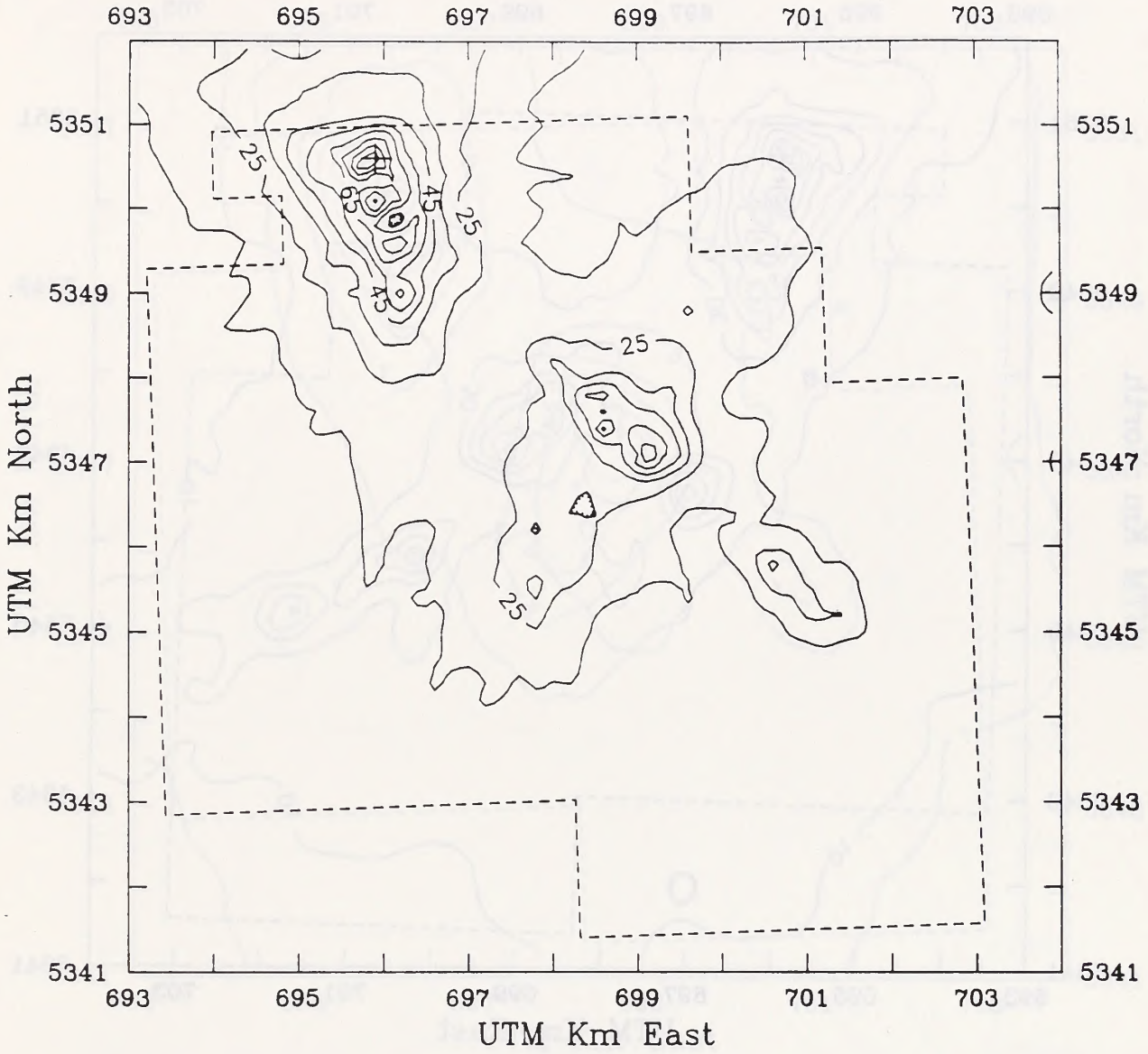
Highest 2nd Highest Concentration (+) = 286
PSD Class II Increment = 512 Contour Interval = 25

Figure C-128
Stanley Field – Future PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



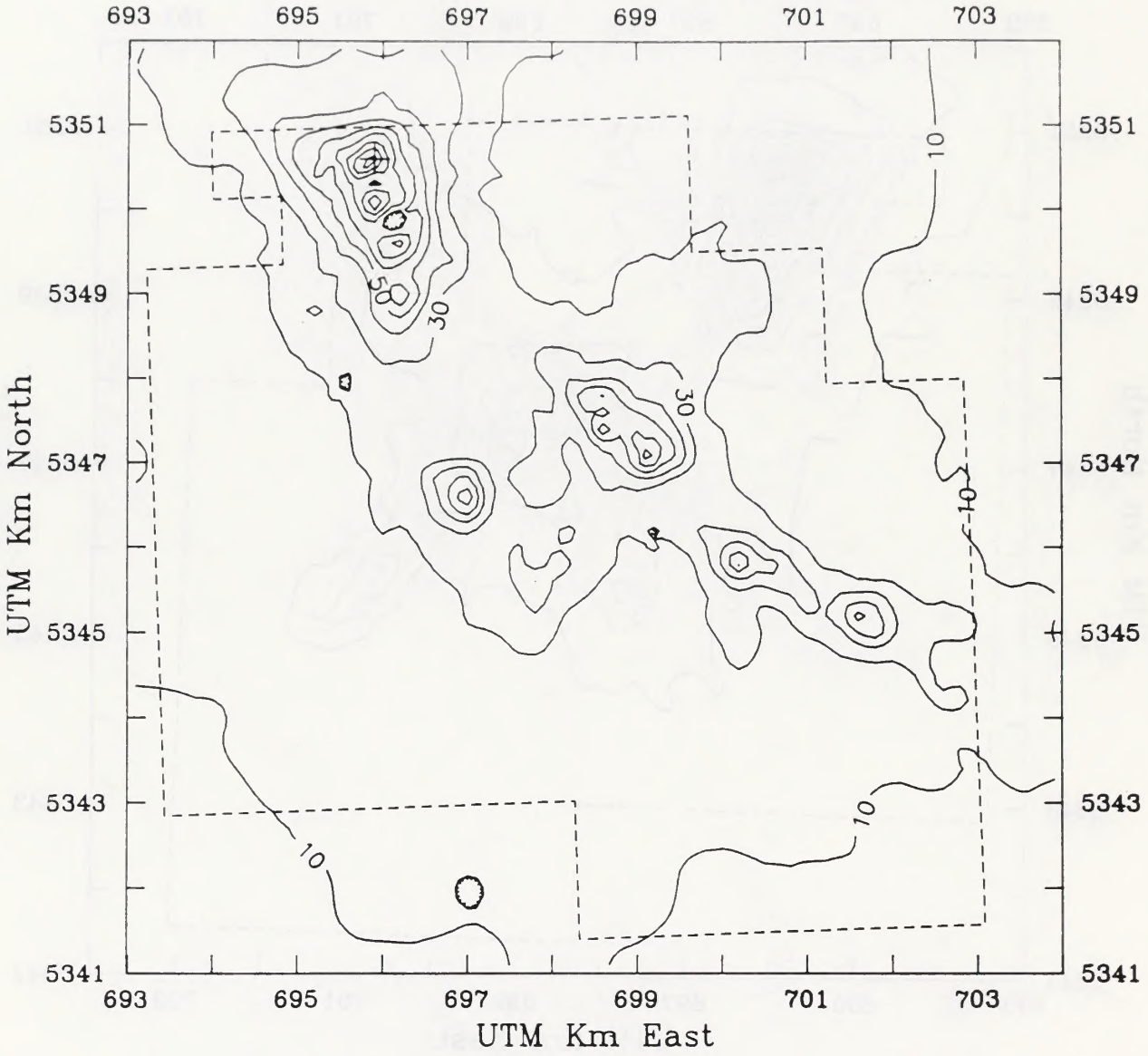
Highest 2nd Highest Concentration (+) = 288
PSD Class II Increment = 512 Contour Interval = 25

Figure C-129
Stanley Field - Existing PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



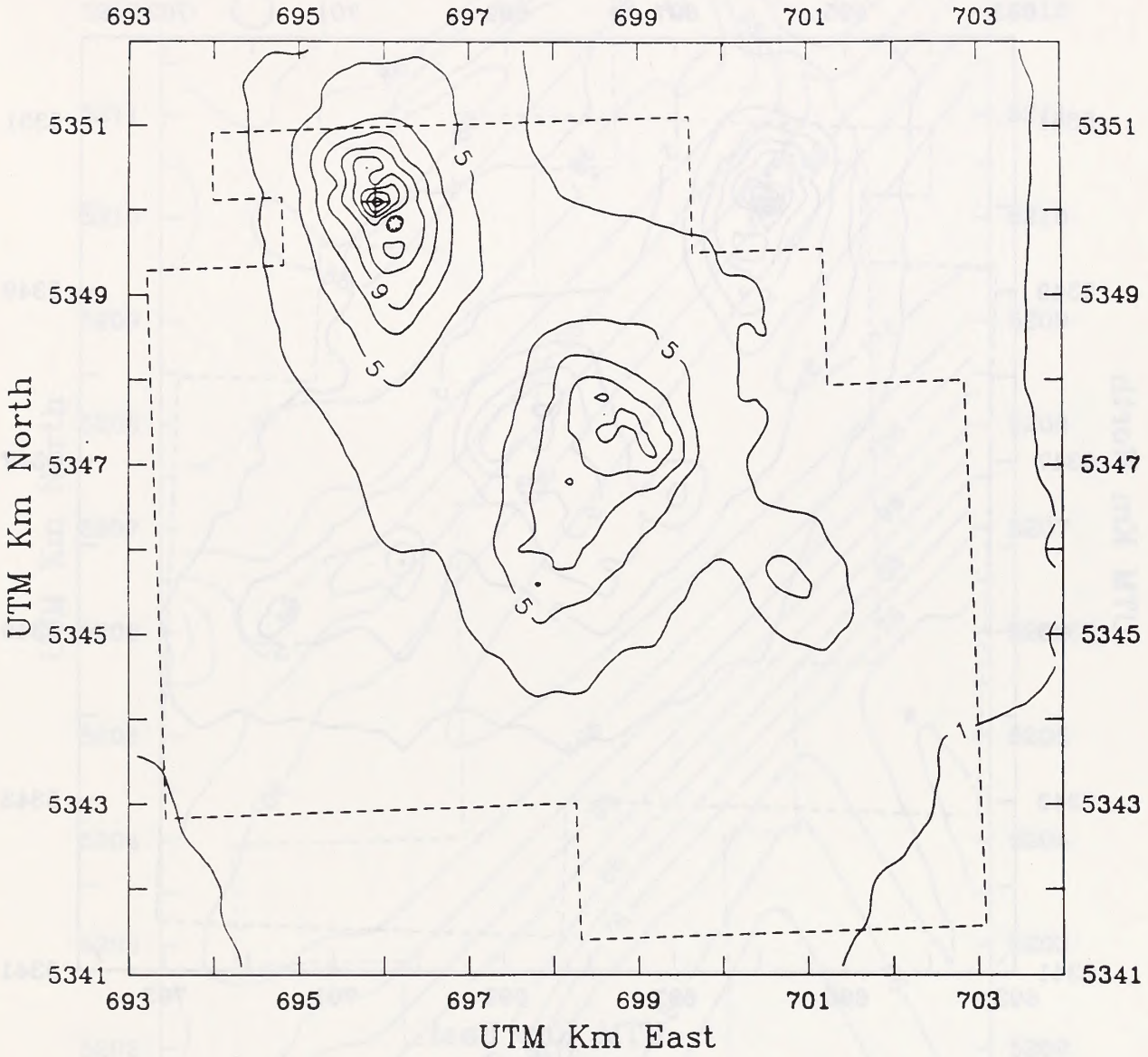
Highest 2nd Highest Concentration (+) = 116
PSD Class II Increment = 91 Contour Interval = 10

Figure C-130
Stanley Field - Future PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



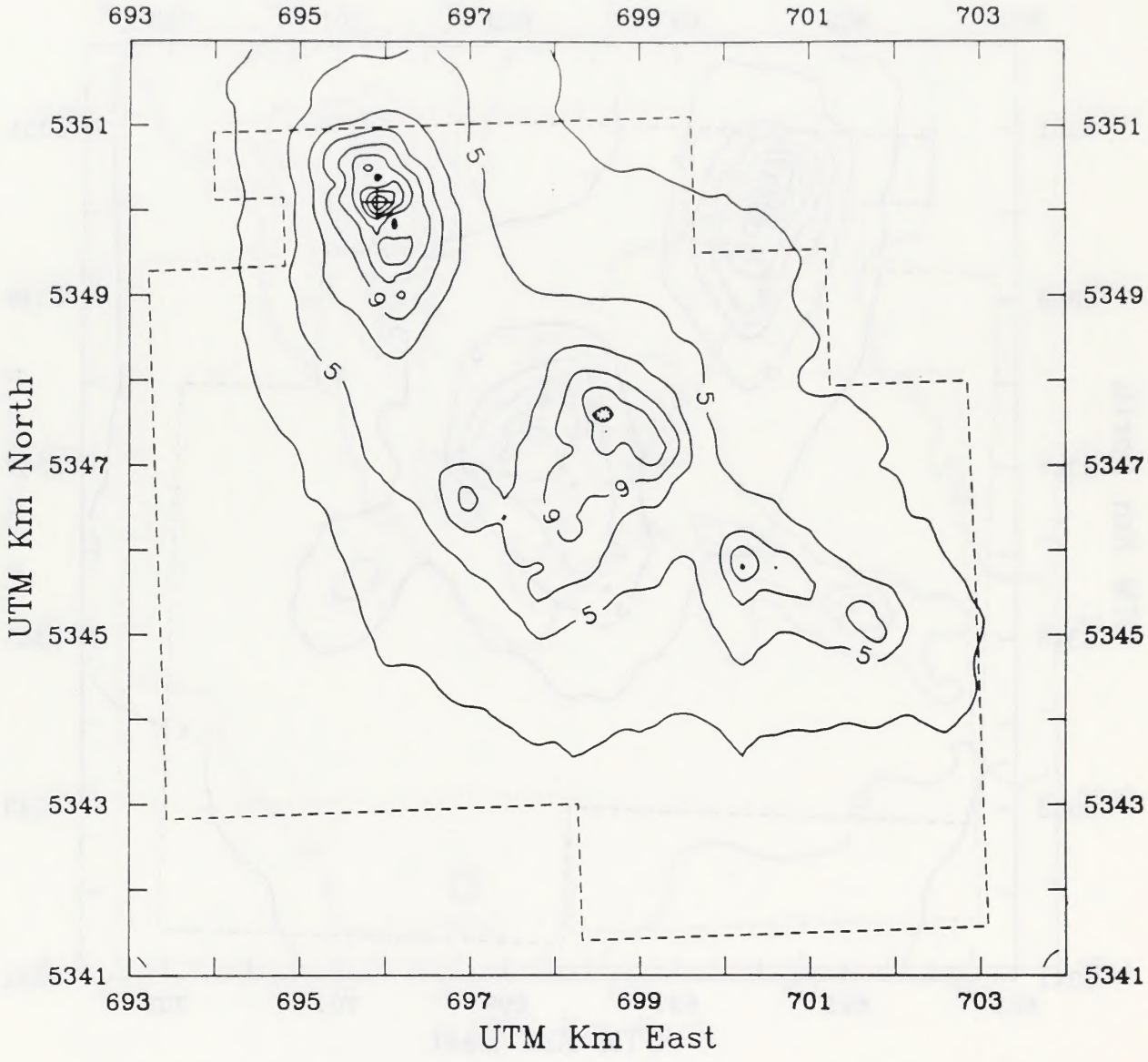
Highest 2nd Highest Concentration (+) = 118
PSD Class II Increment = 91 Contour Interval = 10

Figure C-131
Stanley Field - Existing PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



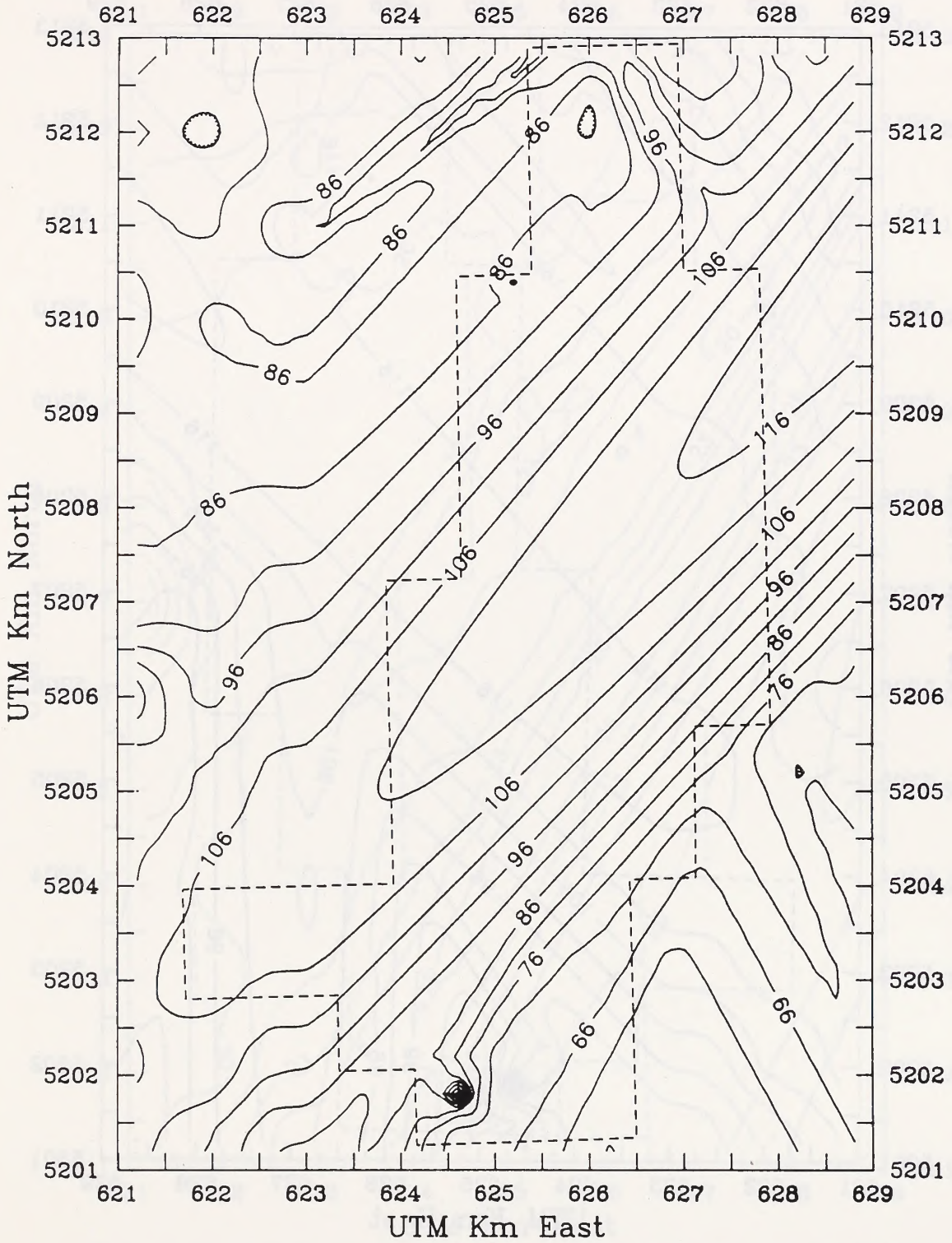
Highest Concentration (+) = 23
PSD Class II Increment = 15 Contour Interval = 2

Figure C-132
Stanley Field - Future PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



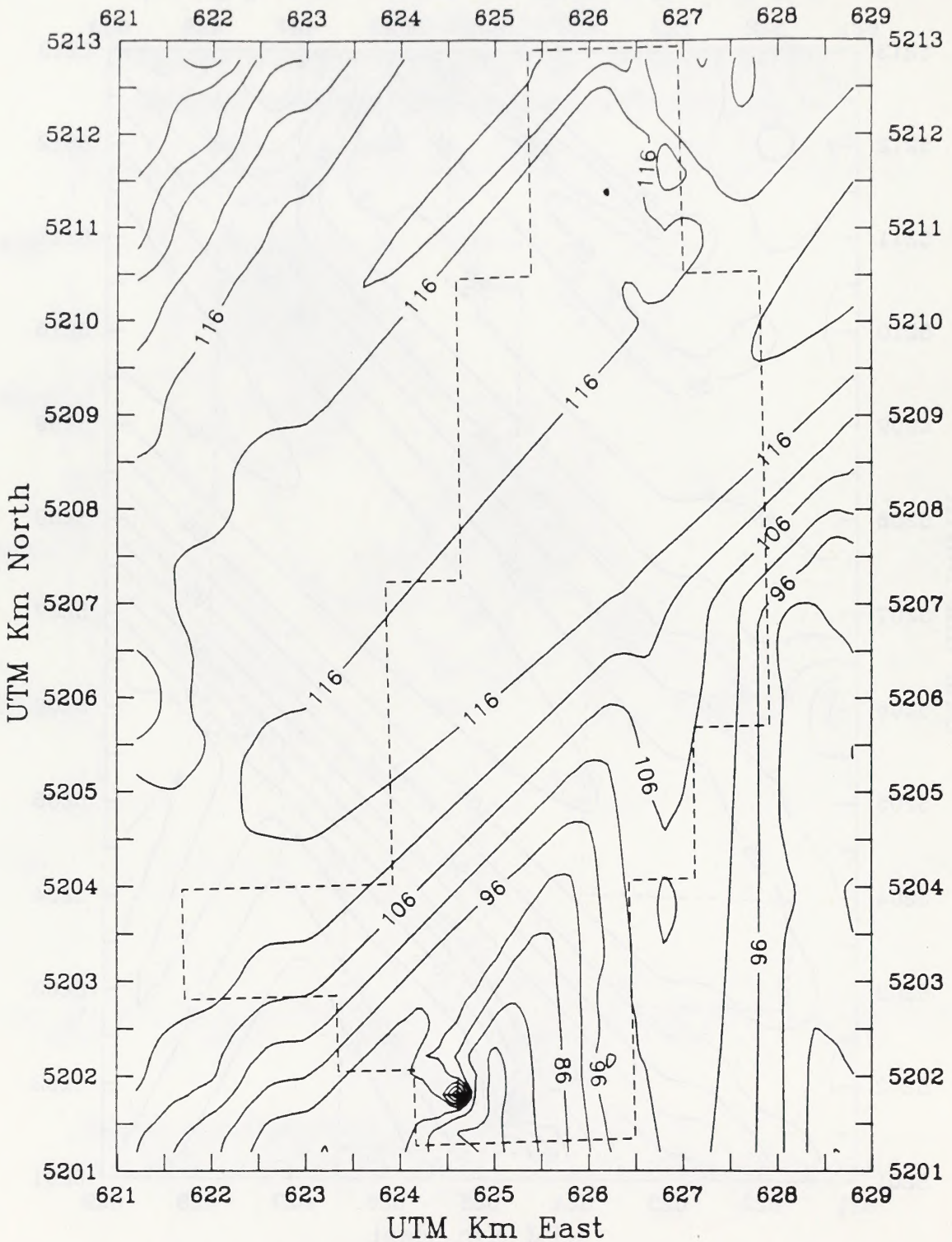
Highest Concentration (+) = 24
PSD Class II Increment = 15 Contour Interval = 2

Figure C-133
Whiskey Joe Field - Existing Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



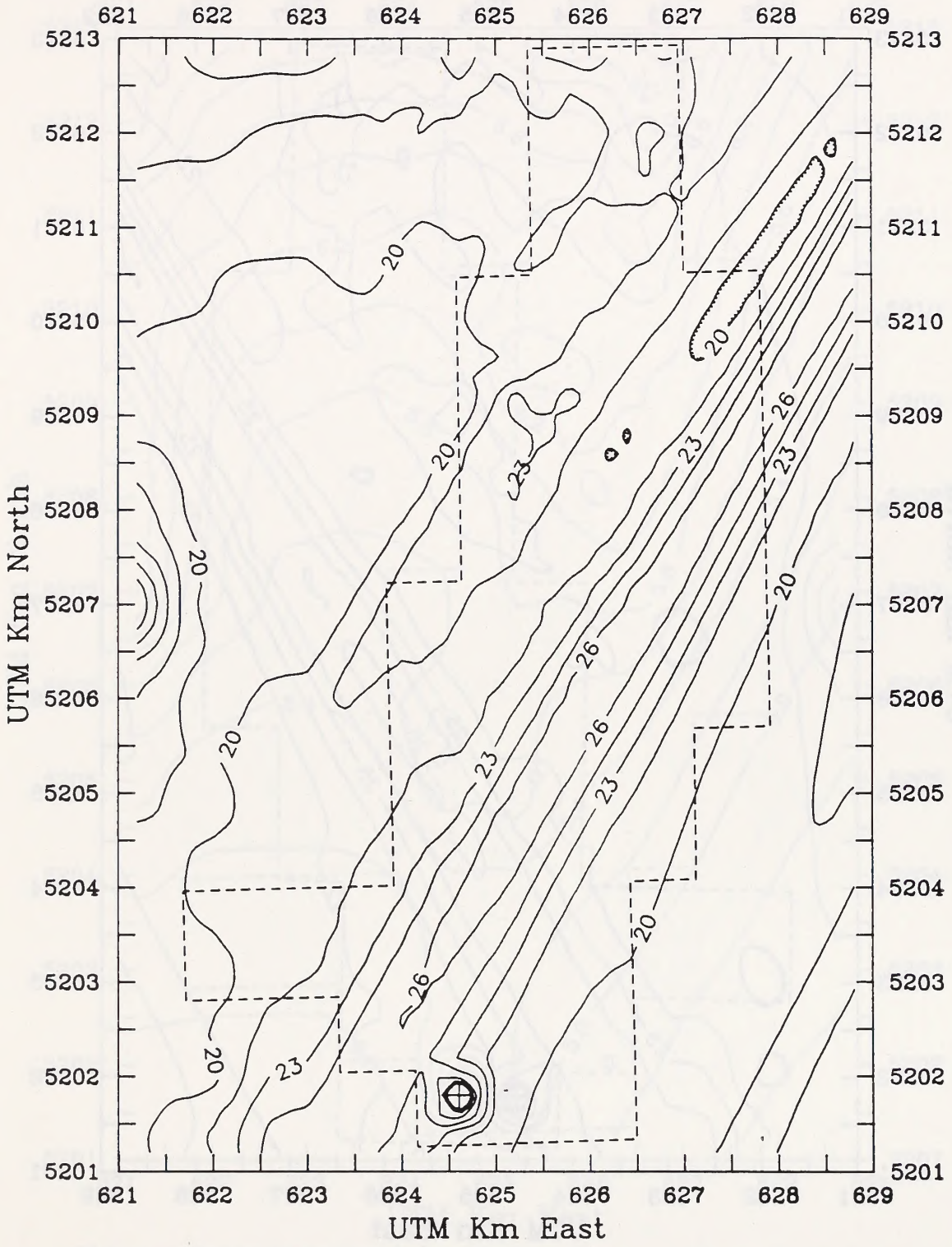
Highest Concentration (+) = 163
Ambient Air Quality Standard = 715 Contour Interval = 5

Figure C-134
Whiskey Joe Field - Future Ambient Scenario
Highest 1-hr SO_2 Concentrations ($\mu g/m^3$)



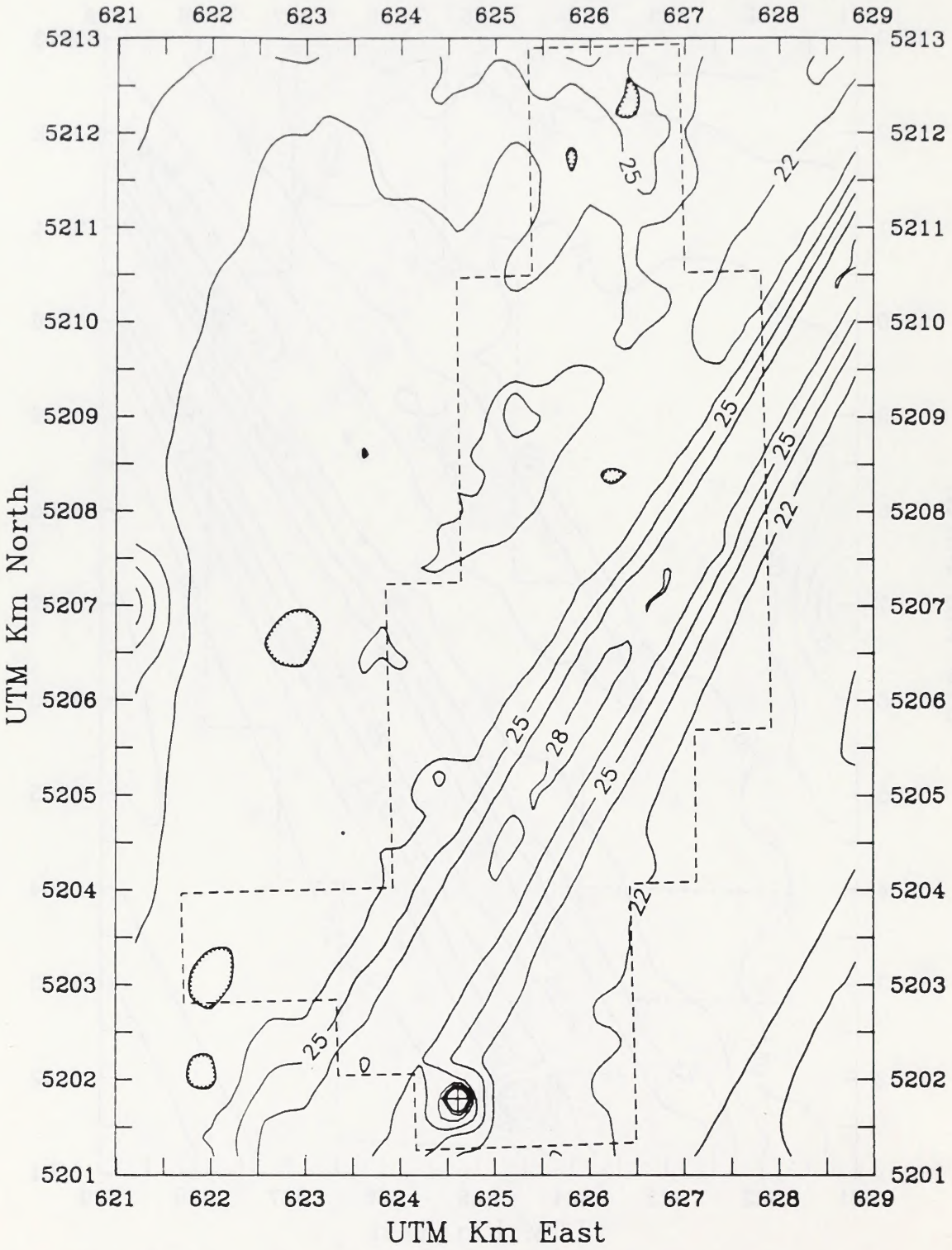
Highest Concentration (+) = 163
Ambient Air Quality Standard = 715 Contour Interval = 5

Figure C-135
Whiskey Joe Field – Existing Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



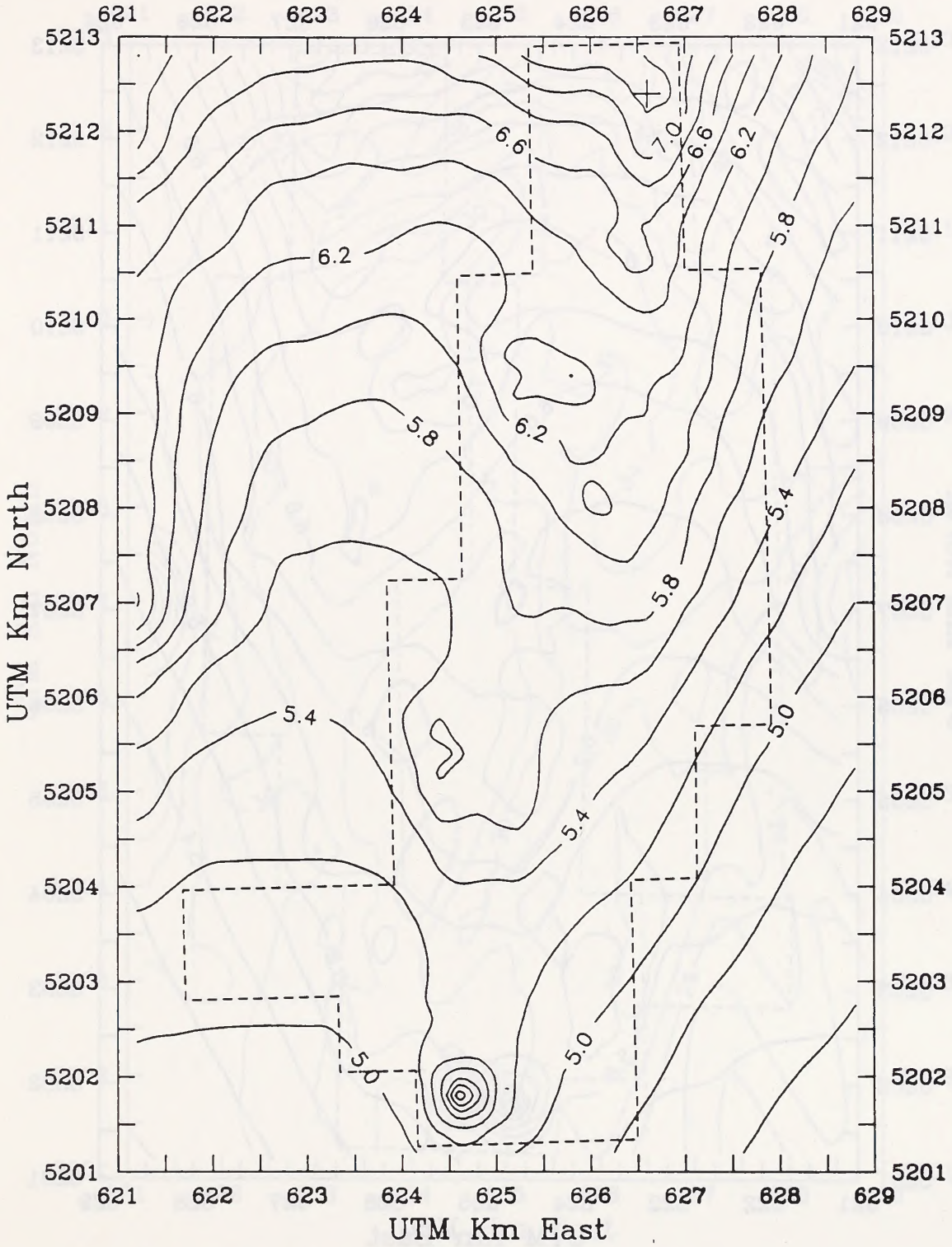
Highest Concentration (+) = 57
Ambient Air Quality Standard = 260 Contour Interval = 1.5

Figure C-136
Whiskey Joe Field - Future Ambient Scenario
Highest 24-hr SO_2 Concentrations ($\mu g/m^3$)



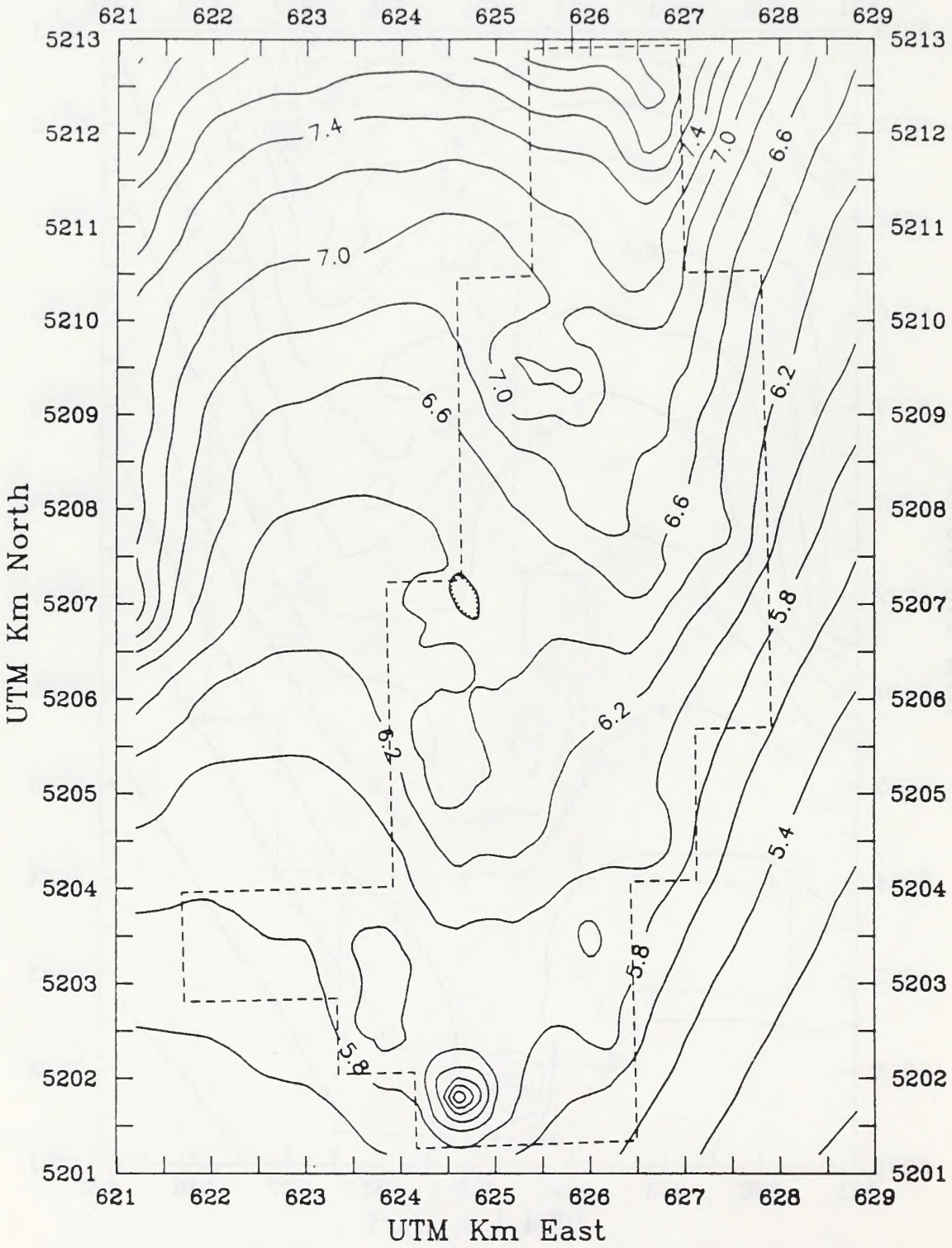
Highest Concentration (+) = 57
Ambient Air Quality Standard = 260 Contour Interval = 1.5

Figure C-137
Whiskey Joe Field – Existing Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



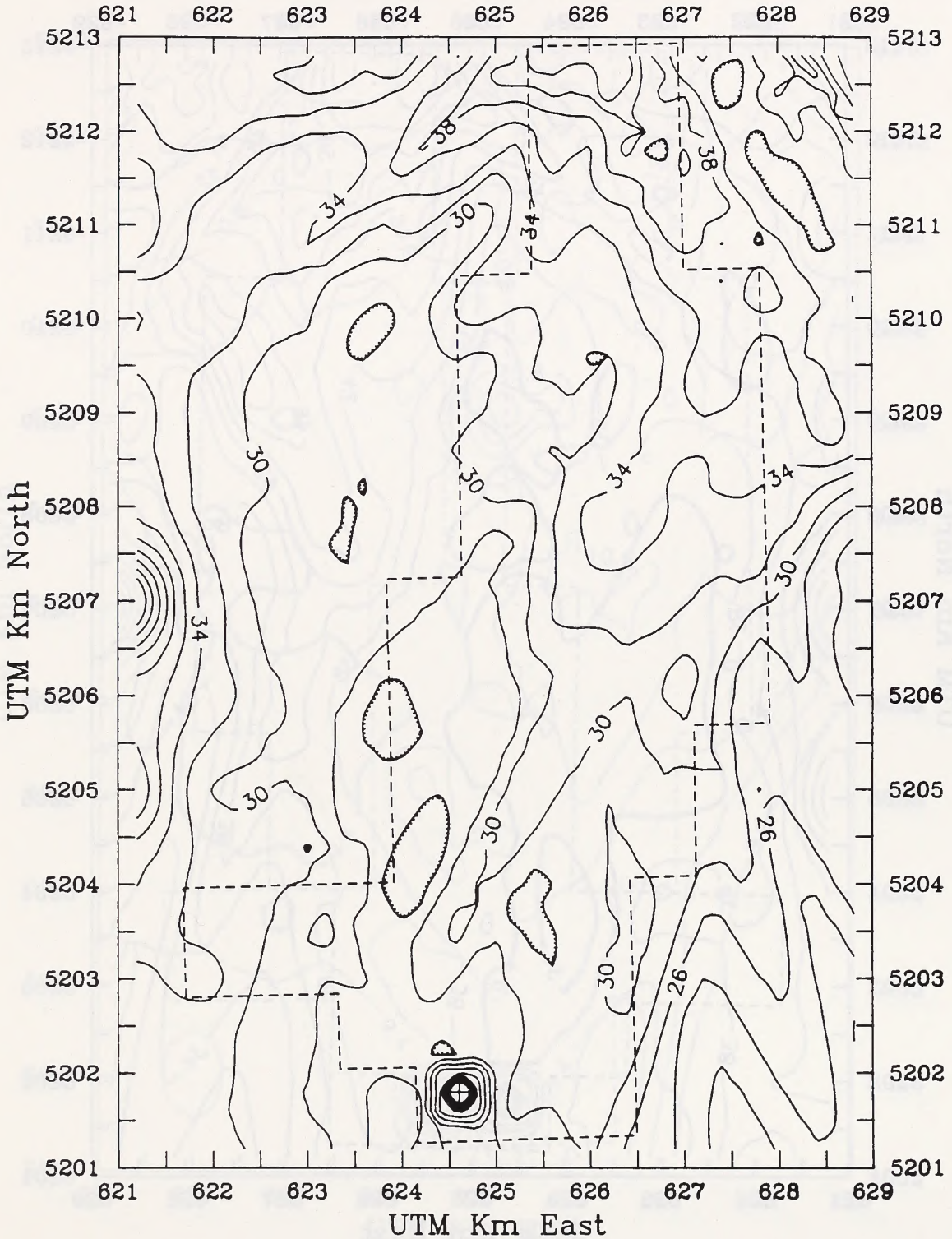
Highest Concentration (+) = 7.7
Ambient Air Quality Standard = 60 Contour Interval = 0.2

Figure C-138
Whiskey Joe Field – Future Ambient Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



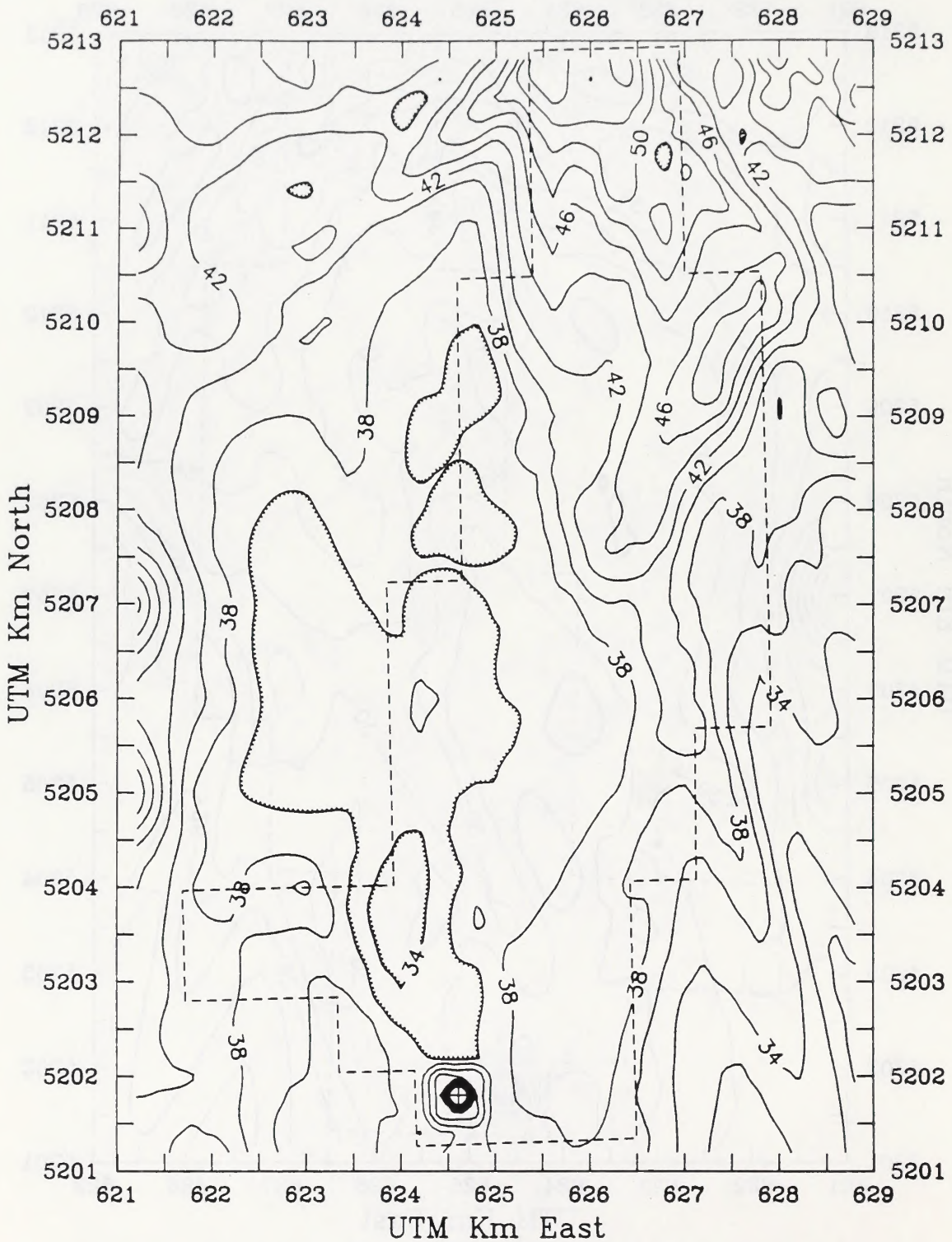
Highest Concentration (+) = 8.5
Ambient Air Quality Standard = 60 Contour Interval = 0.2

Figure C-139
Whiskey Joe Field – Existing PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



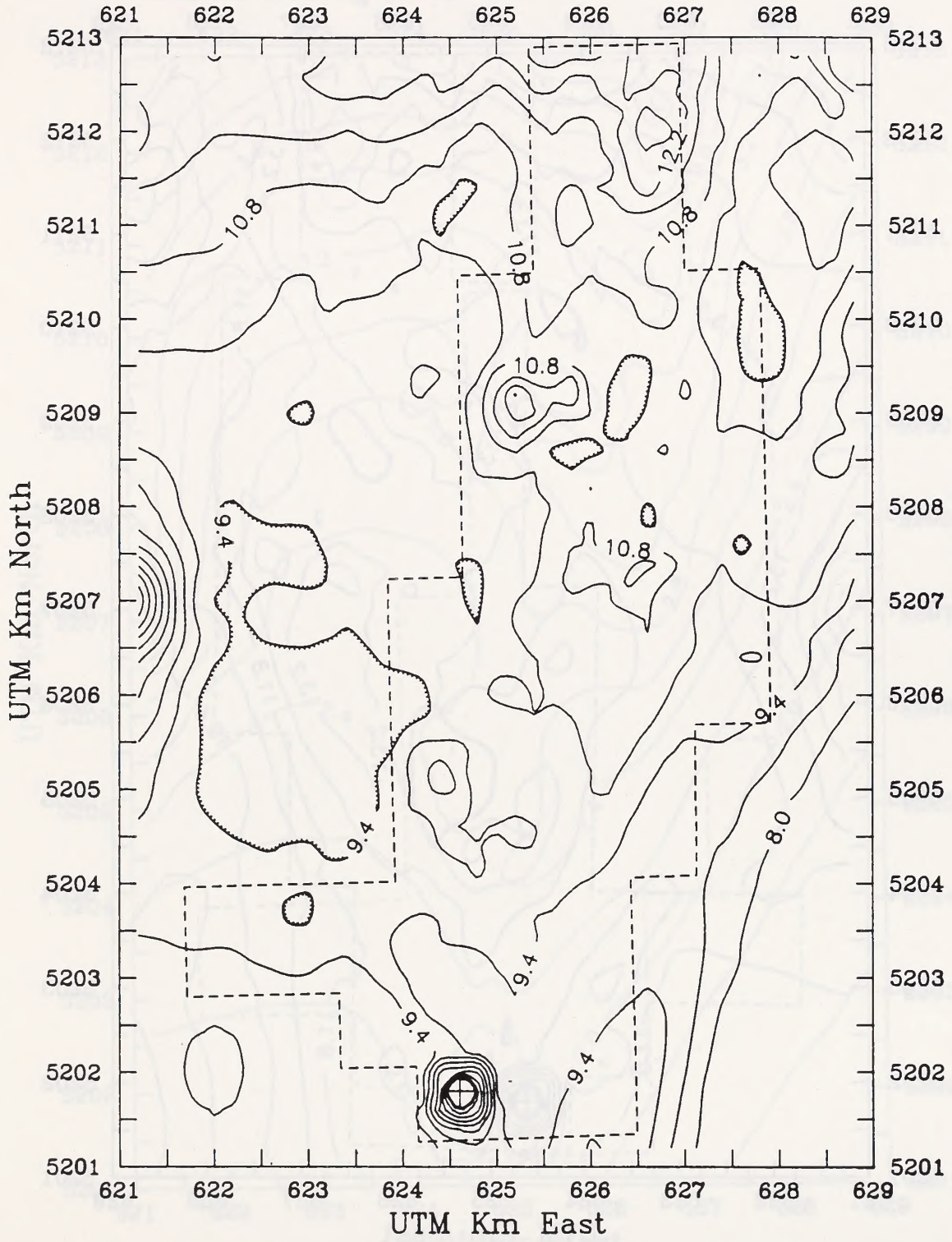
Highest 2nd Highest Concentration (+) = 115
PSD Class II Increment = 512 Contour Interval = 2

Figure C-140
Whiskey Joe Field - Future PSD Class II Scenario
Second Highest 3-hr SO_2 Conc. ($\mu g/m^3$)



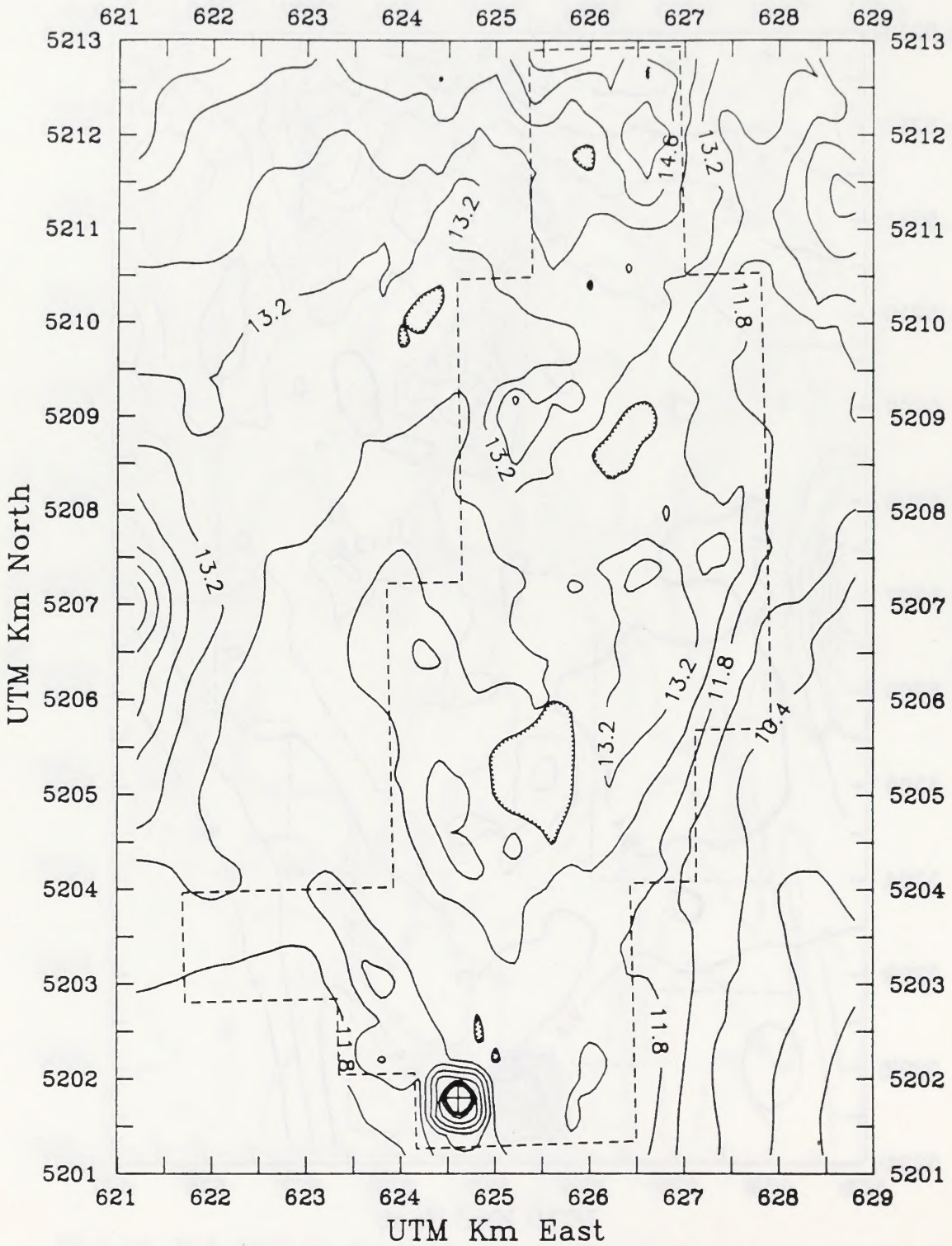
Highest 2nd Highest Concentration (+) = 115
PSD Class II Increment = 512 Contour Interval = 2

Figure C-141
Whiskey Joe Field – Existing PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



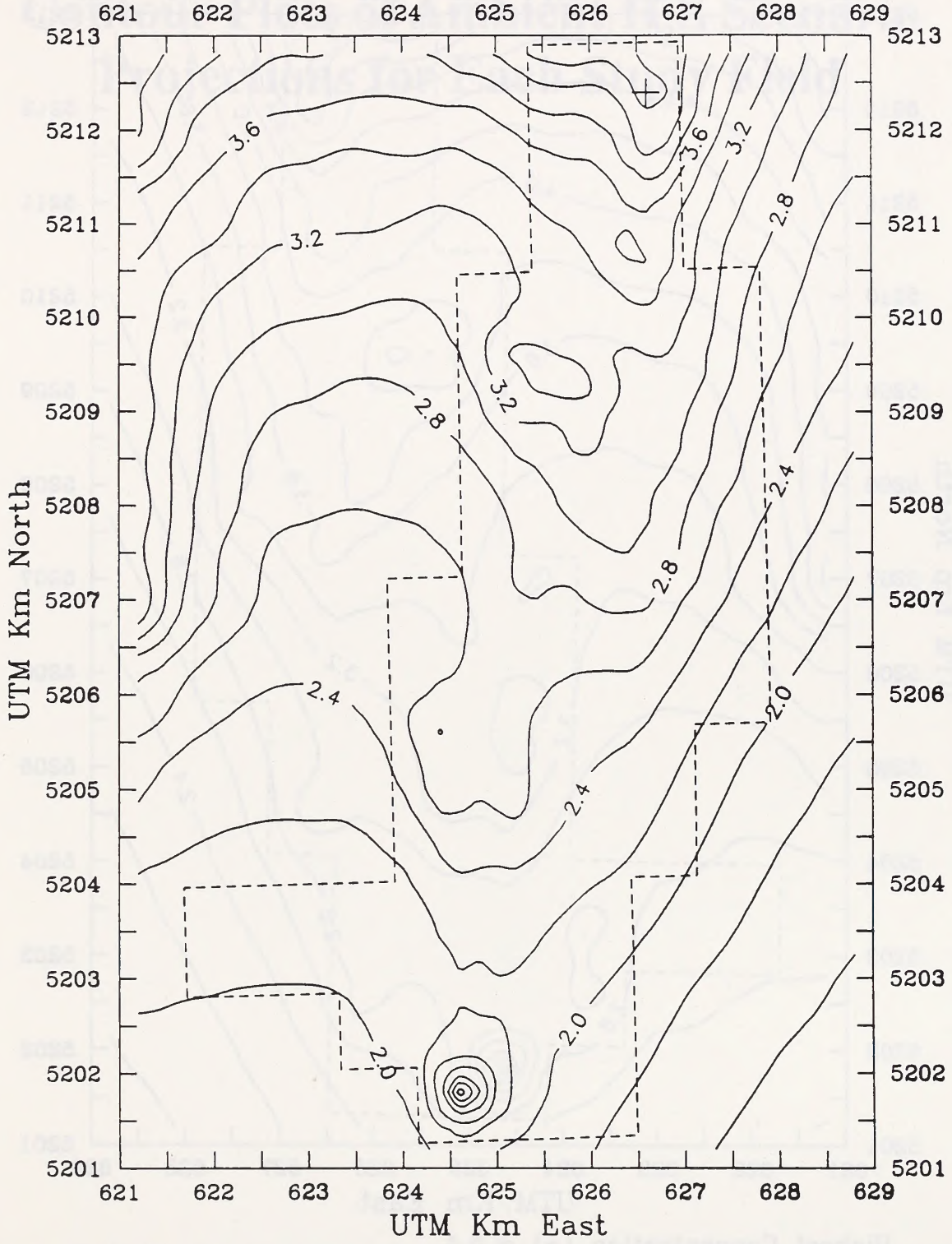
Highest 2nd Highest Concentration (+) = 40
PSD Class II Increment = 91 Contour Interval = 0.7

Figure C-142
Whiskey Joe Field - Future PSD Class II Scenario
Second Highest 24-hr SO_2 Conc. ($\mu g/m^3$)



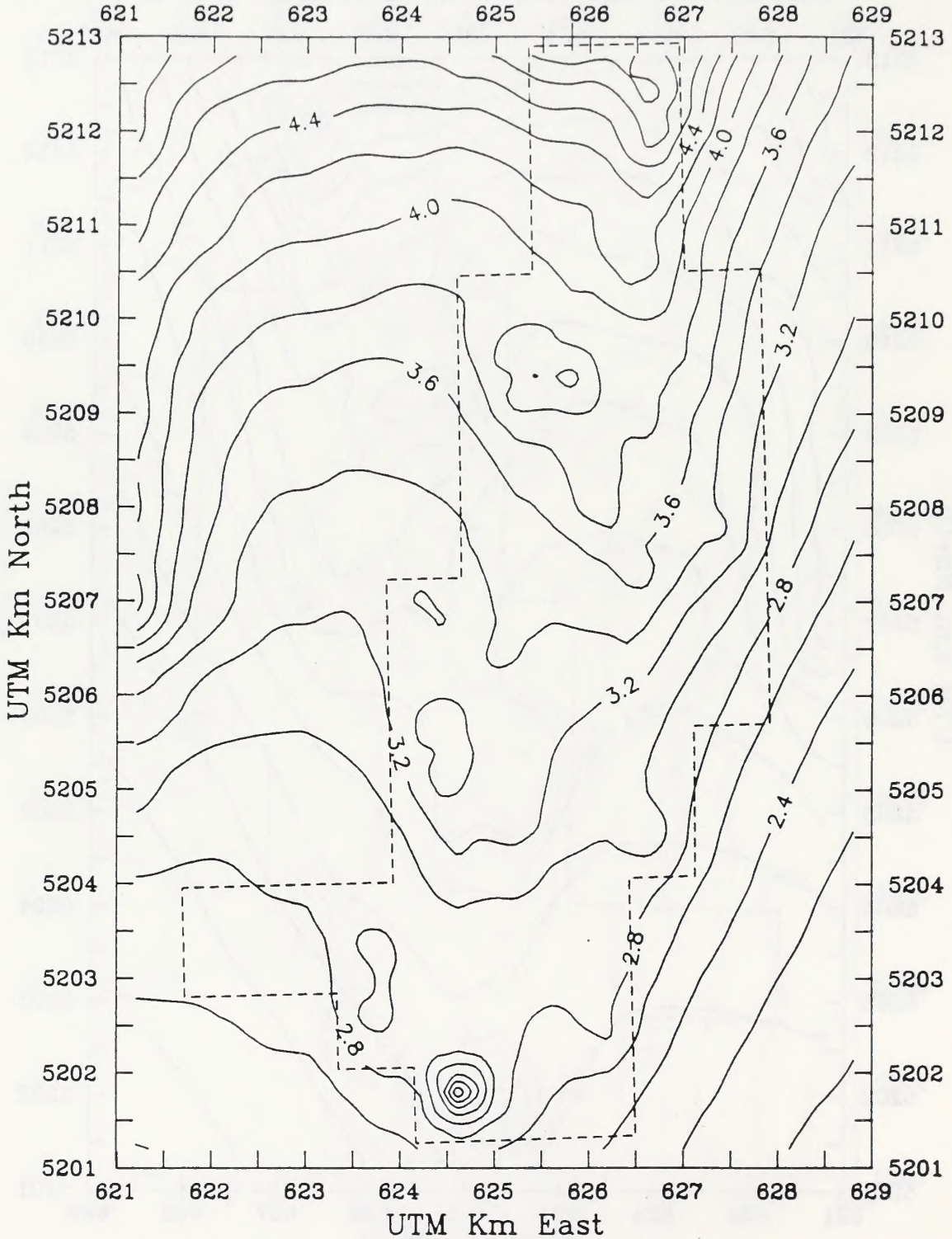
Highest 2nd Highest Concentration (+) = 40
PSD Class II Increment = 91 Contour Interval = 0.7

Figure C-143
Whiskey Joe Field – Existing PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)



Highest Concentration (+) = 4.7
PSD Class II Increment = 15 Contour Interval = 0.2

Figure C-144
Whiskey Joe Field - Future PSD Class II Scenario
Annual Average SO_2 Concentrations ($\mu g/m^3$)

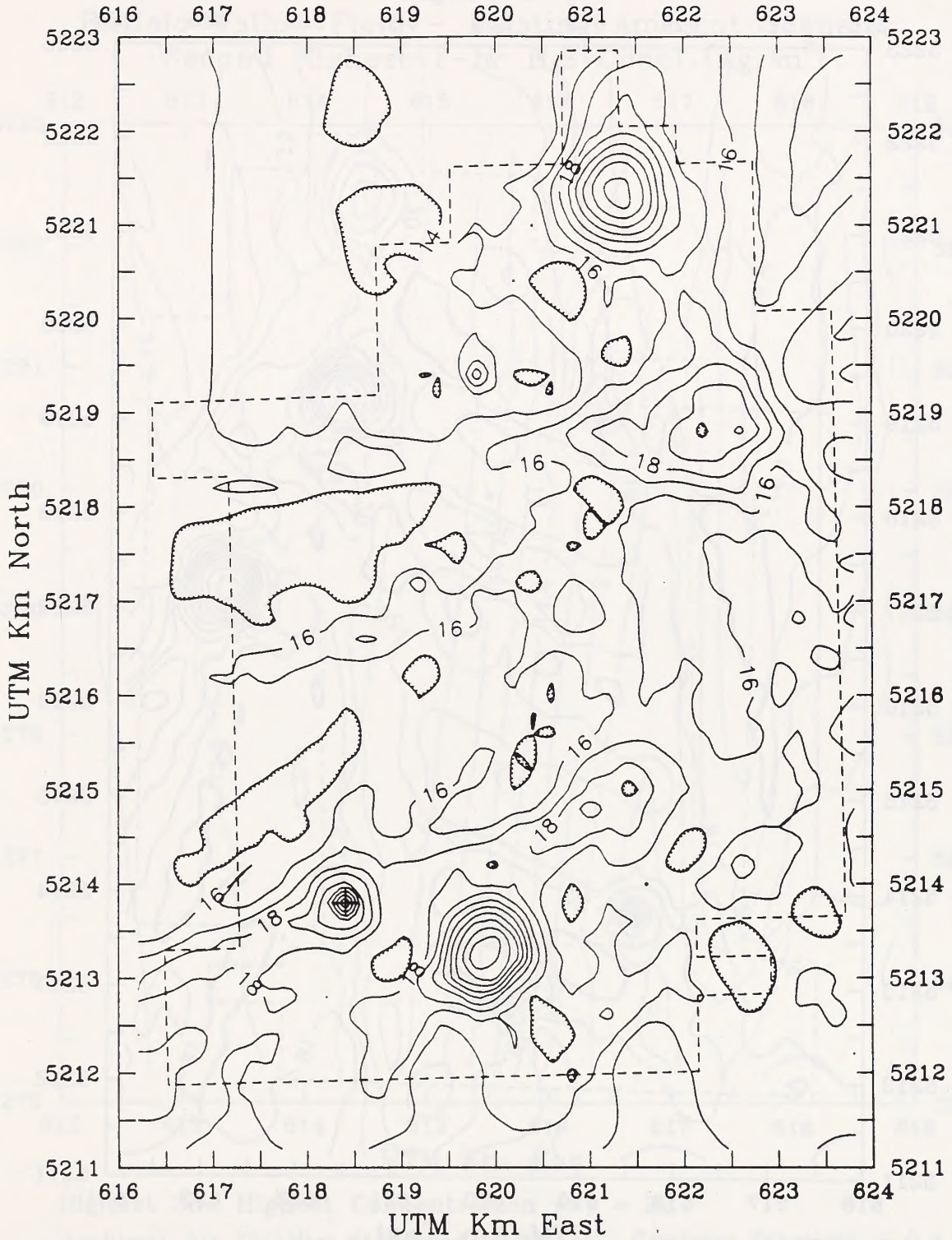


Highest Concentration (+) = 5.4
PSD Class II Increment = 15
Contour Interval = 0.2

APPENDIX D

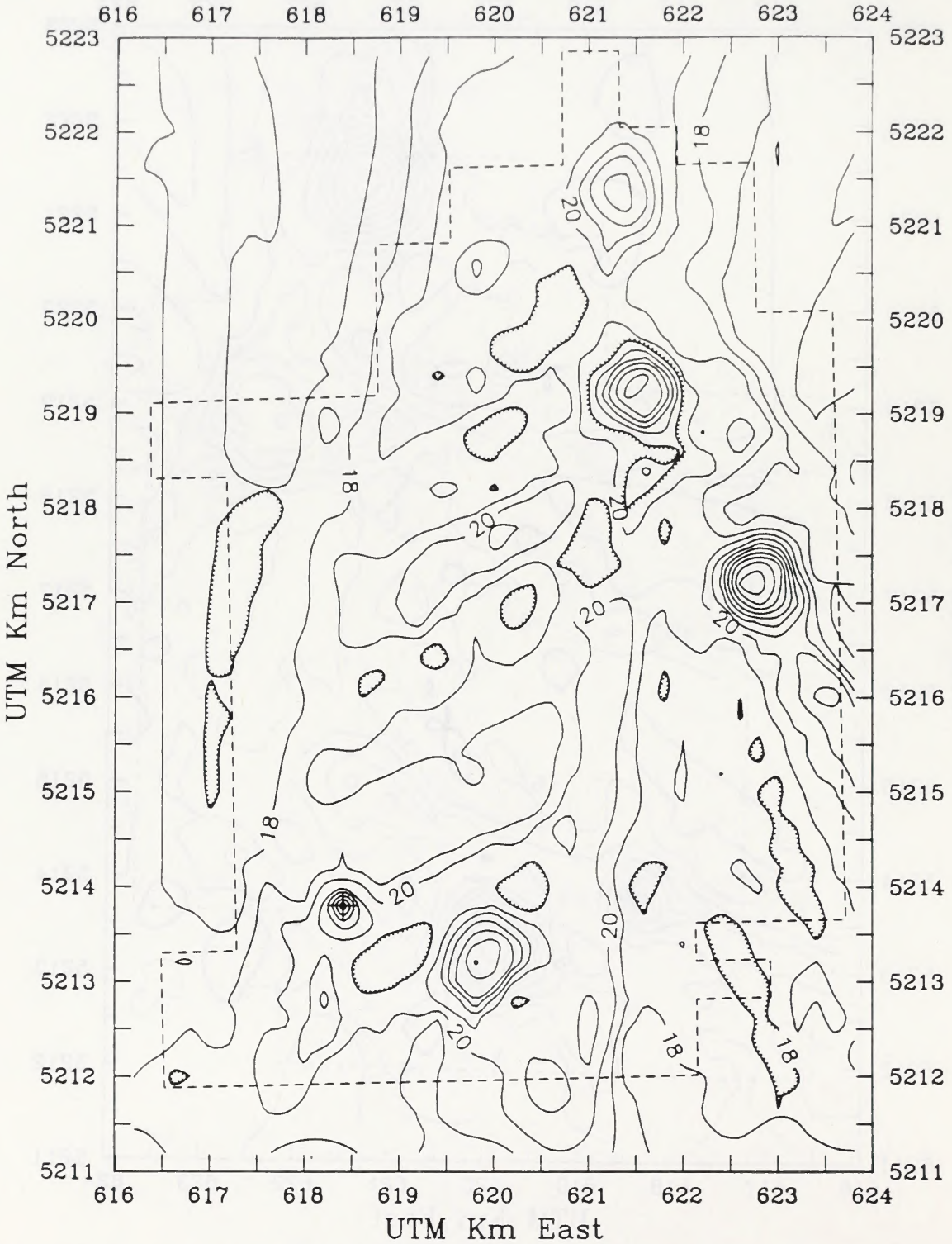
Contour Plots of Ambient H_2S Scenario Projections for Each Study Field

Figure D-1
Big Stick Field - Existing Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



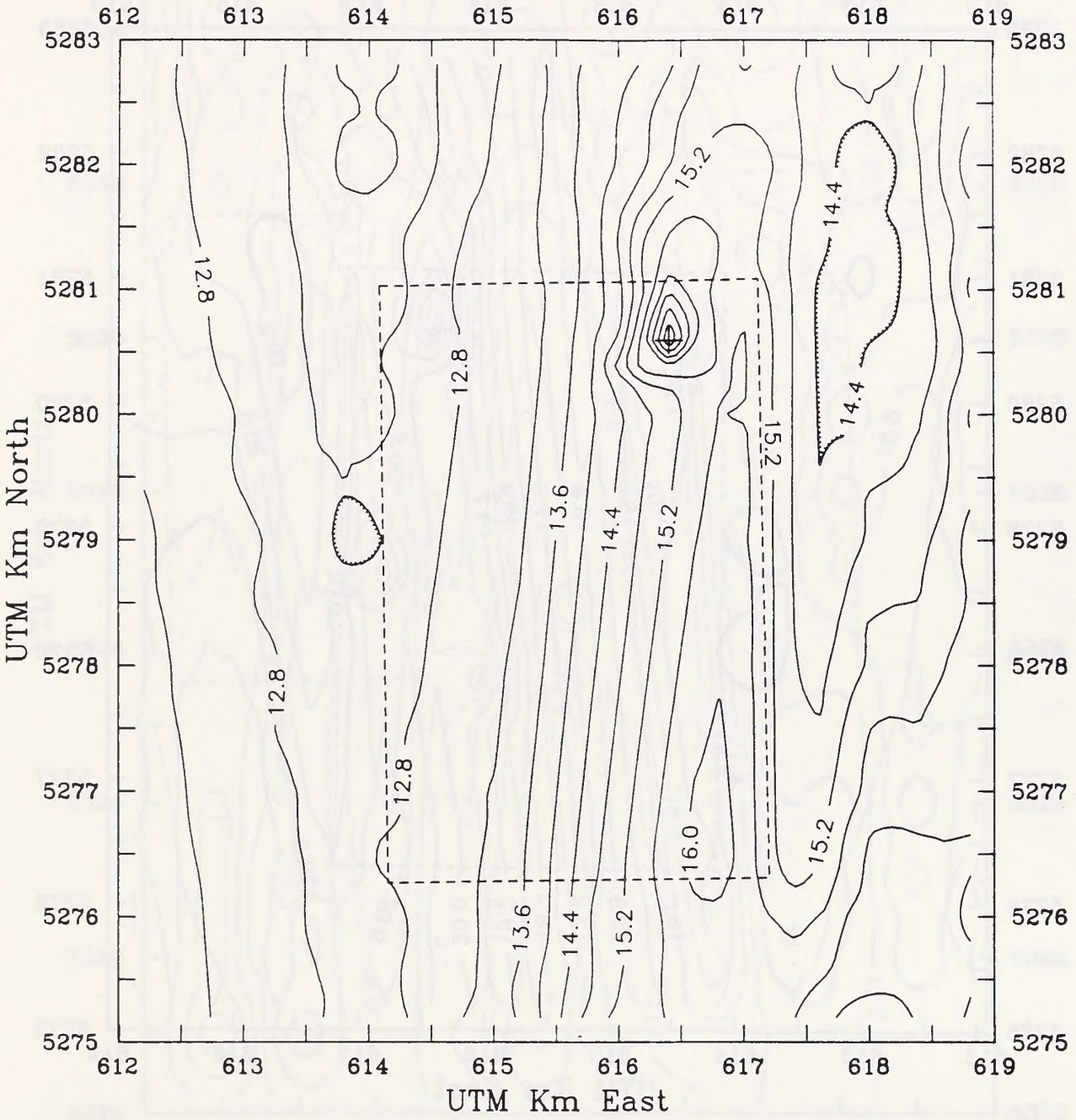
Highest 2nd Highest Concentration (+) = 35
Ambient Air Quality Standard = 70 Contour Interval = 1

Figure D-2
Big Stick Field - Future Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



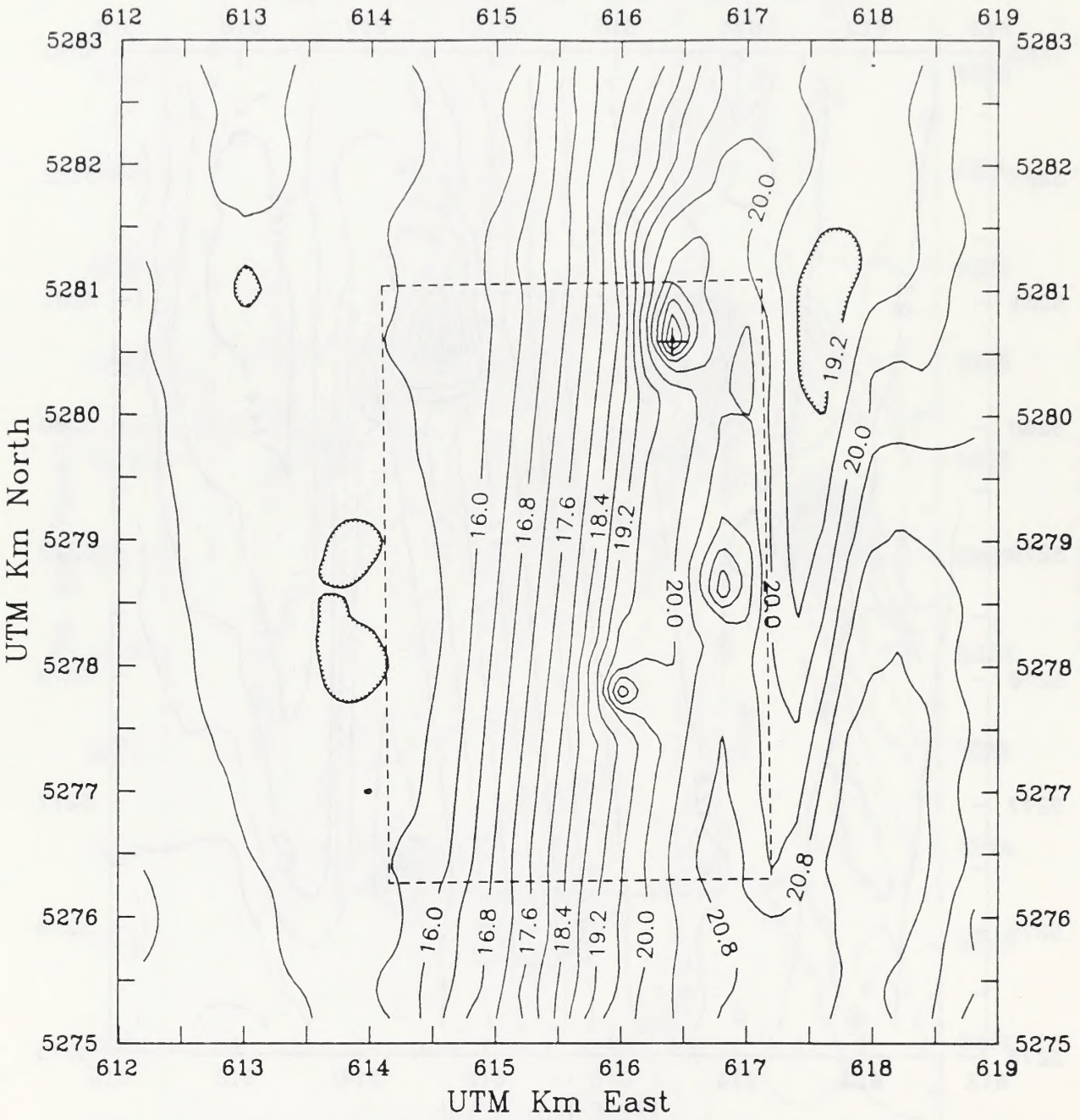
Highest 2nd Highest Concentration (+) = 35
Ambient Air Quality Standard = 70 Contour Interval = 1

Figure D-3
Buffalo Wallow Field – Existing Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



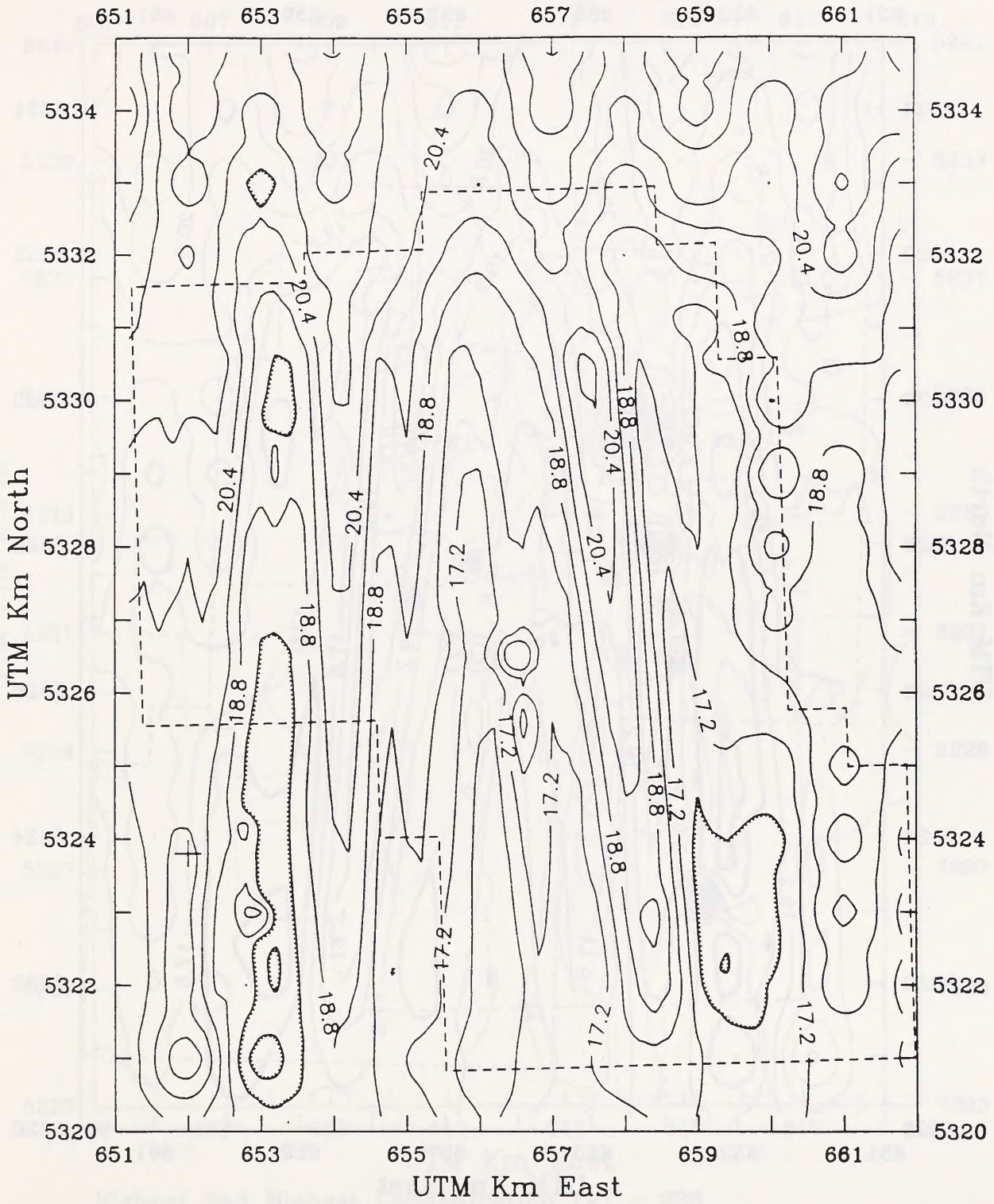
Highest 2nd Highest Concentration (+) = 20
Ambient Air Quality Standard = 70 Contour Interval = 0.4

Figure D-4
Buffalo Wallow Field – Future Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



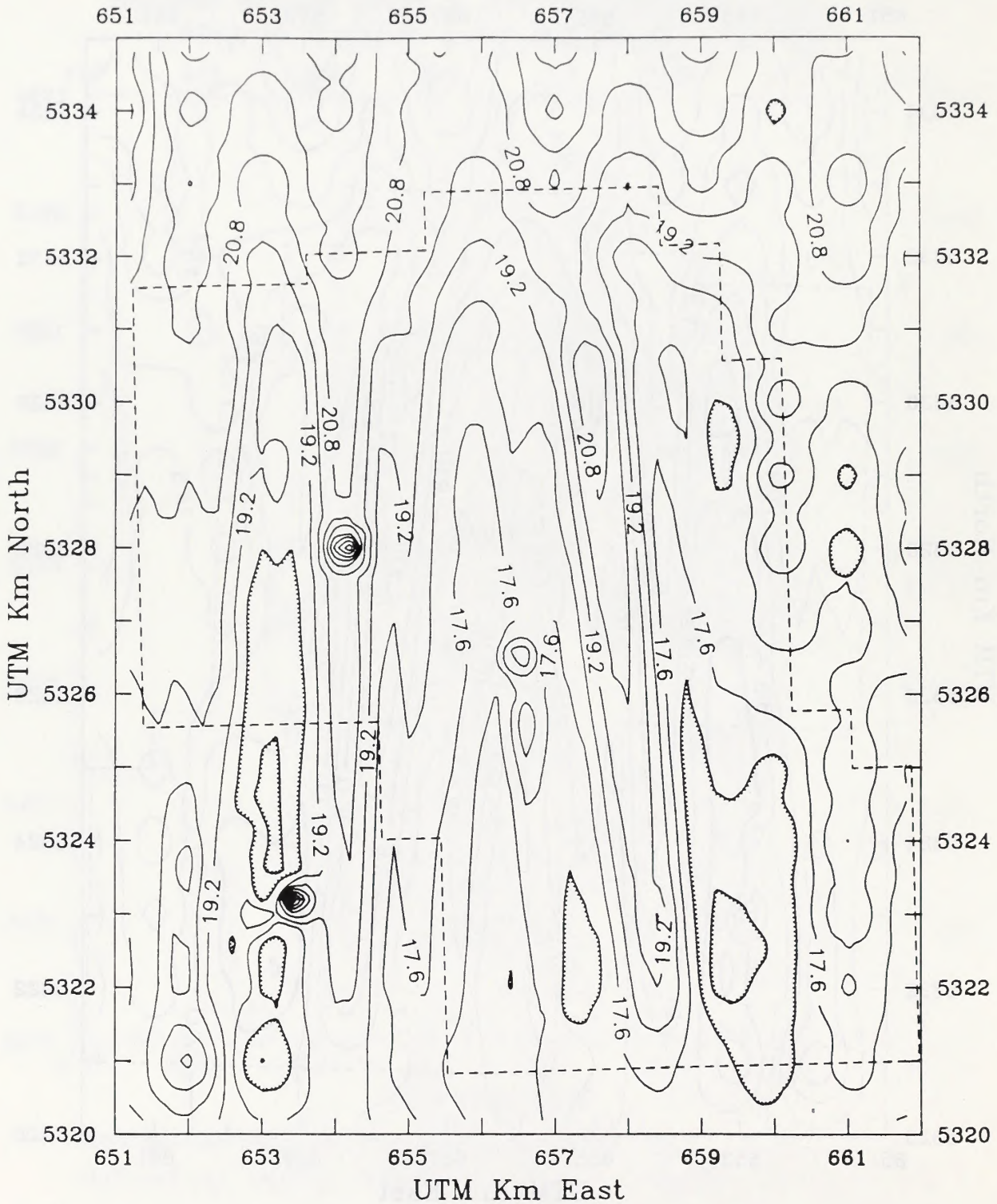
Highest 2nd Highest Concentration (+) = 25
Ambient Air Quality Standard = 70 Contour Interval = 0.4

Figure D-5
Charlson Field - Existing Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



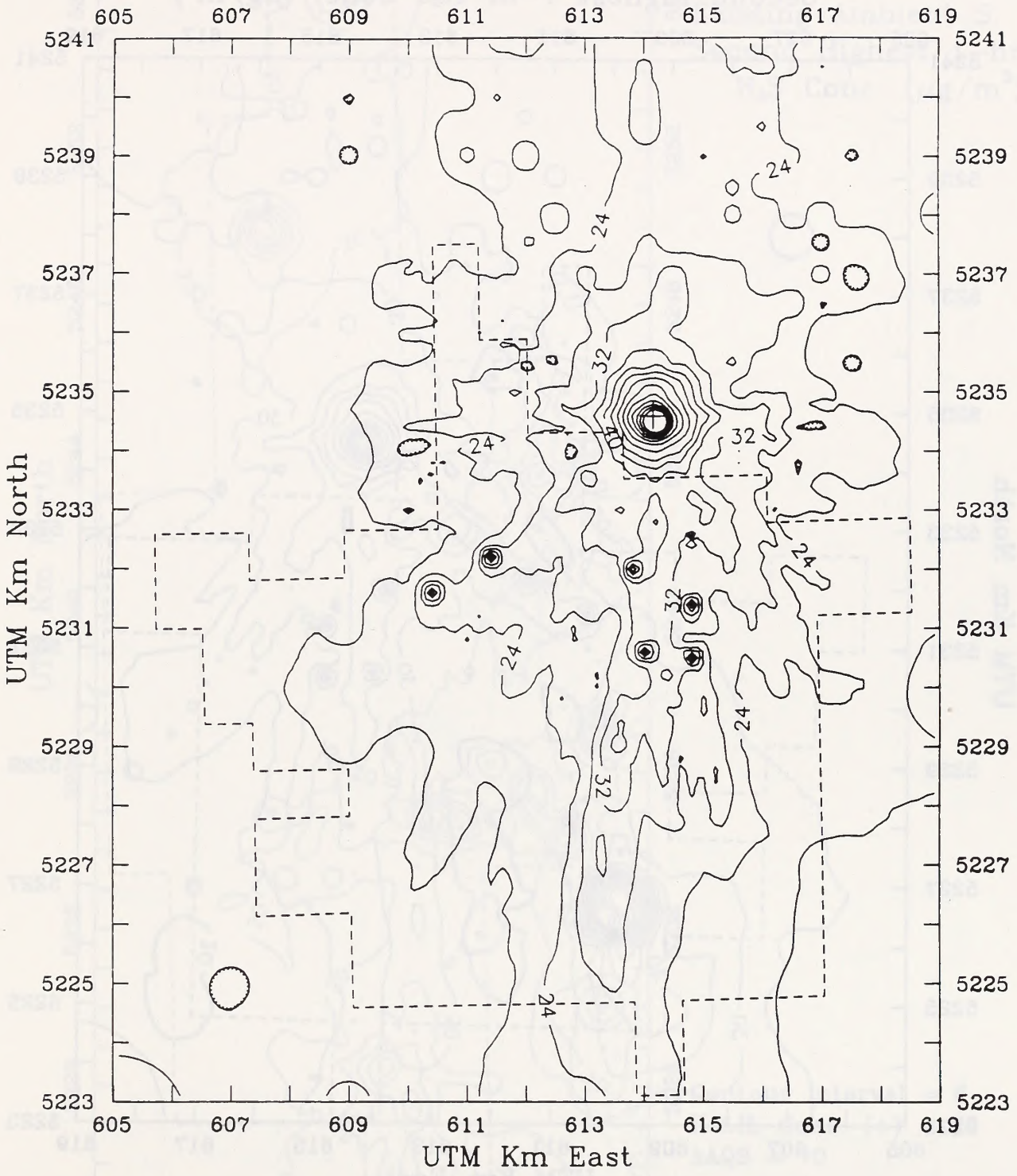
Highest 2nd Highest Concentration (+) = 22
Ambient Air Quality Standard = 70 Contour Interval = 0.8

Figure D–6
Charlson Field – Future Ambient Scenario
Second Highest 1–hr H_2S Conc. ($\mu g/m^3$)



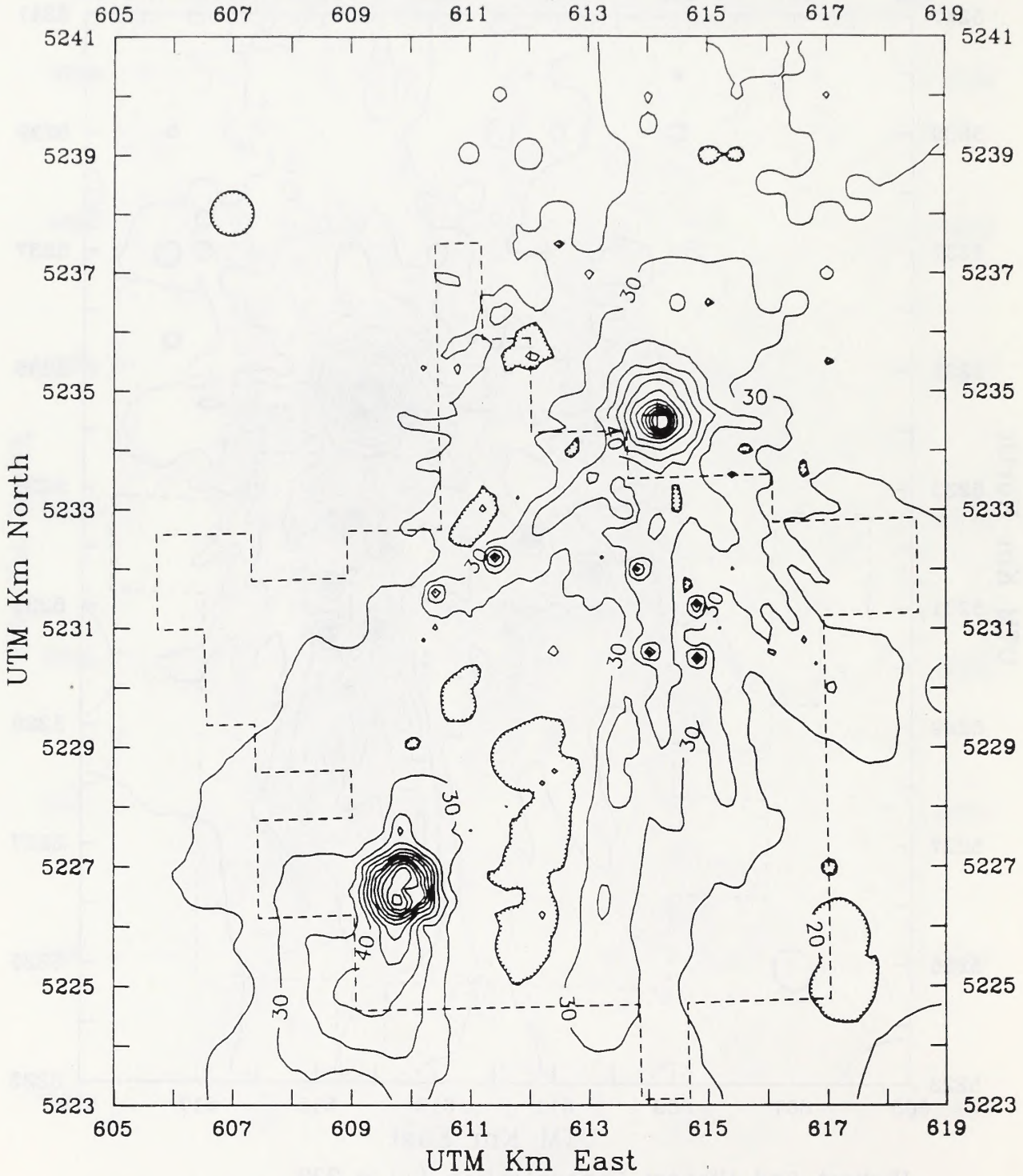
Highest 2nd Highest Concentration (+) = 33
Ambient Air Quality Standard = 70 Contour Interval = 0.8

Figure D-7
Elkhorn Ranch Field - Existing Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



Highest 2nd Highest Concentration (+) = 233
Ambient Air Quality Standard = 70 Contour Interval = 4

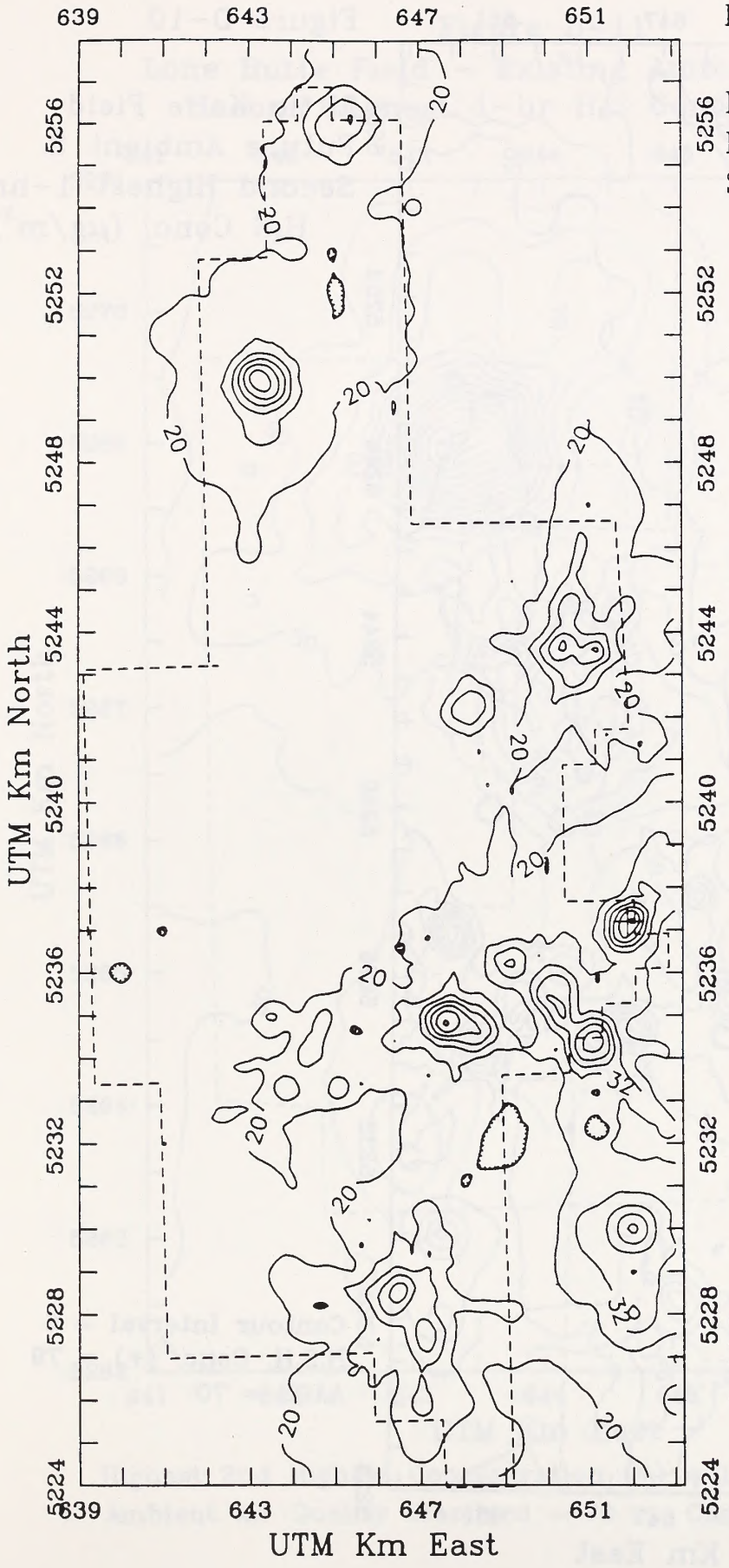
Figure D-8
Elkhorn Ranch Field - Future Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



Highest 2nd Highest Concentration (+) = 233
Ambient Air Quality Standard = 70 Contour Interval = 5

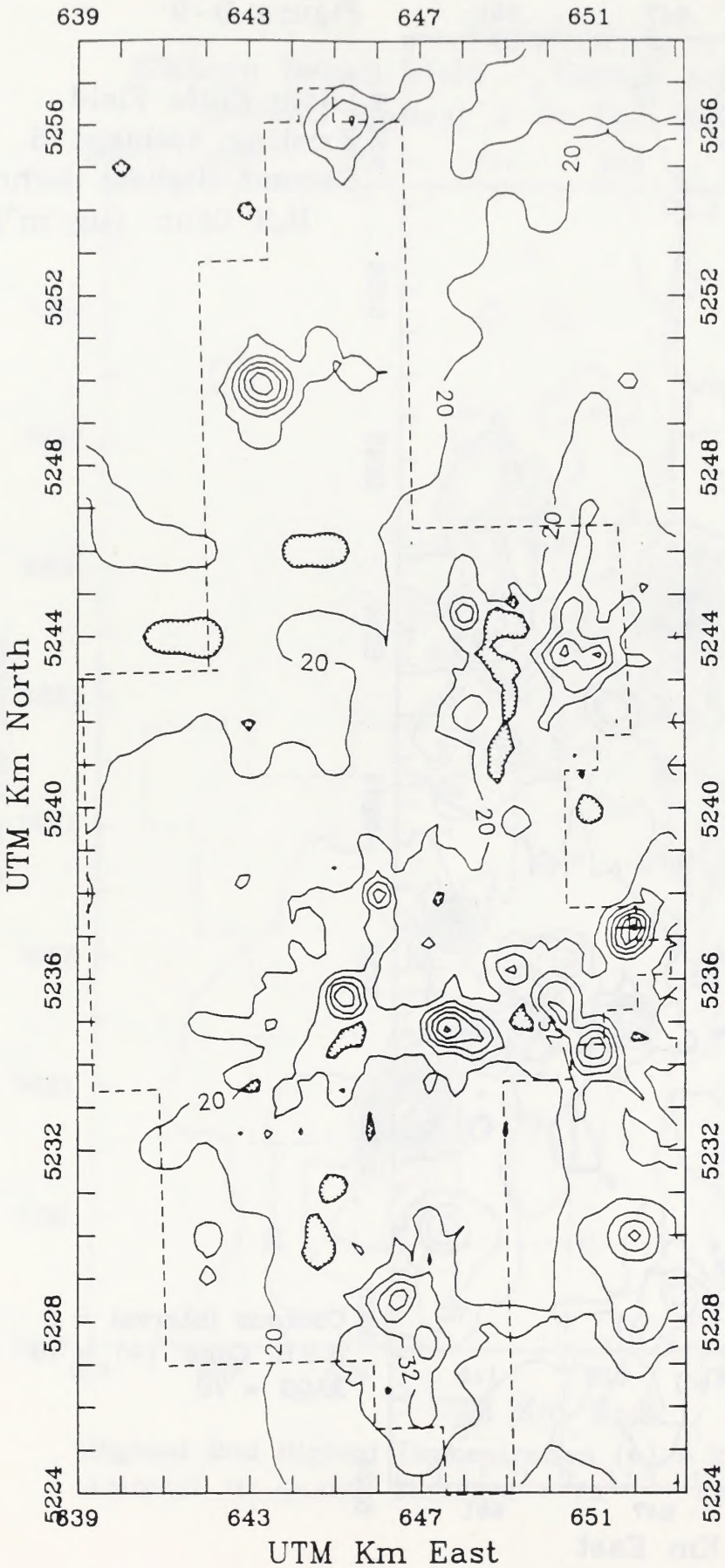
Figure D-9

Little Knife Field
Existing Ambient S.
Second Highest 1-hr
H_2S Conc. ($\mu g/m^3$)



Contour Interval = 6
H.S.H. Conc. (+) = 79
AAQS = 70

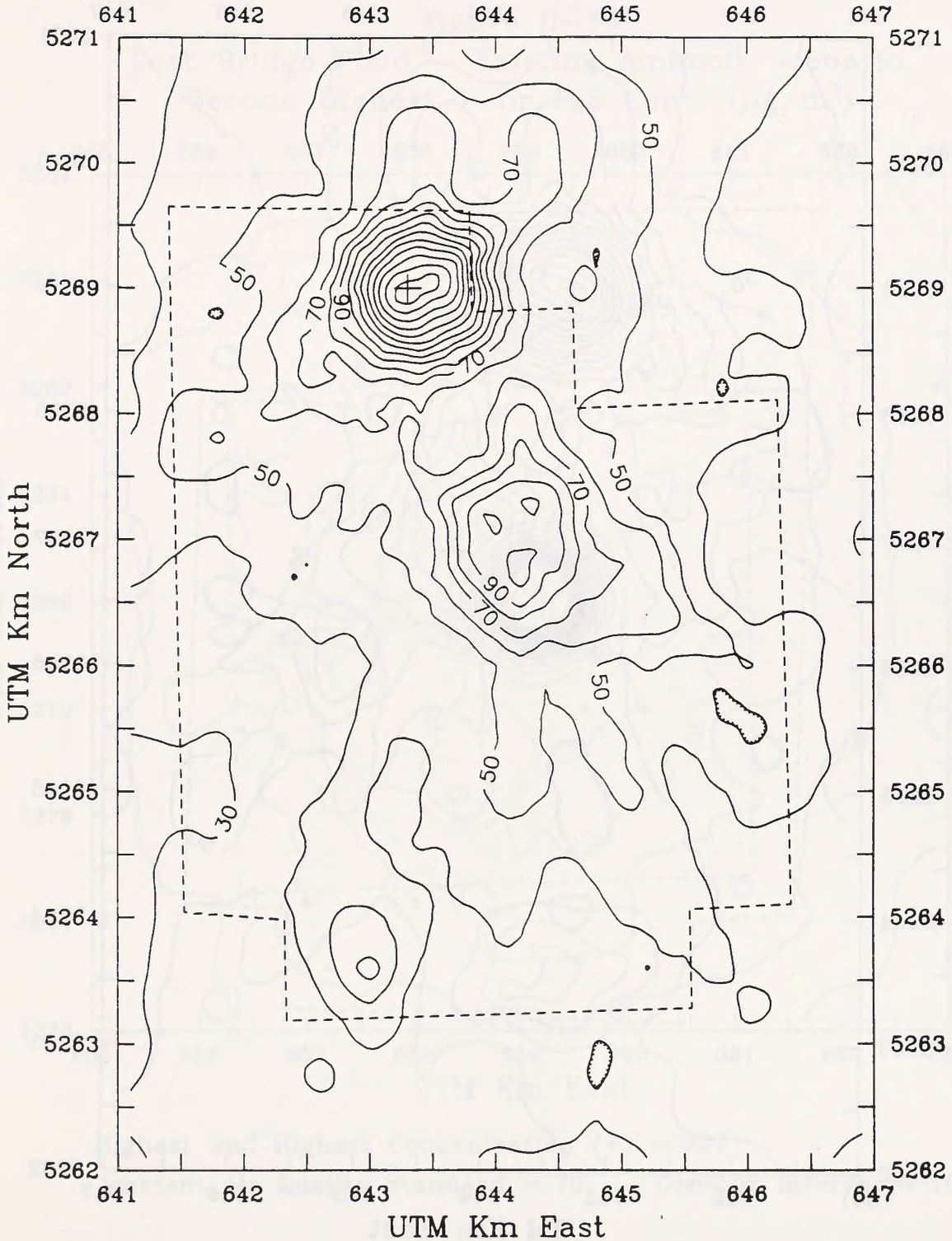
Figure D-10



Little Knife Field
Future Ambient S.
Second Highest 1-hr
H_2S Conc. ($\mu g/m^3$)

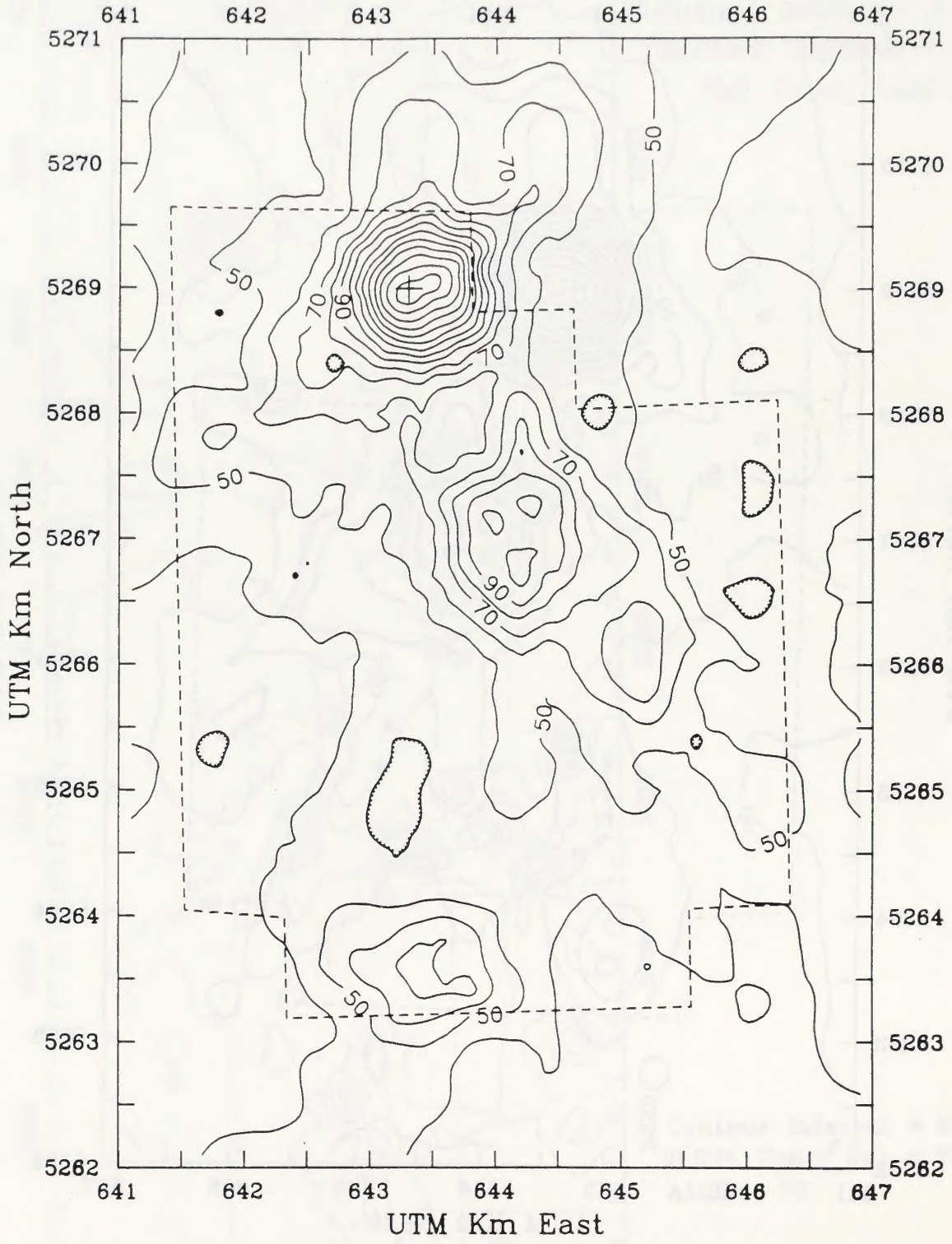
Contour Interval = 6
H.S.H. Conc. (+) = 79
AAQS = 70

Figure D-11
Lone Butte Field - Existing Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



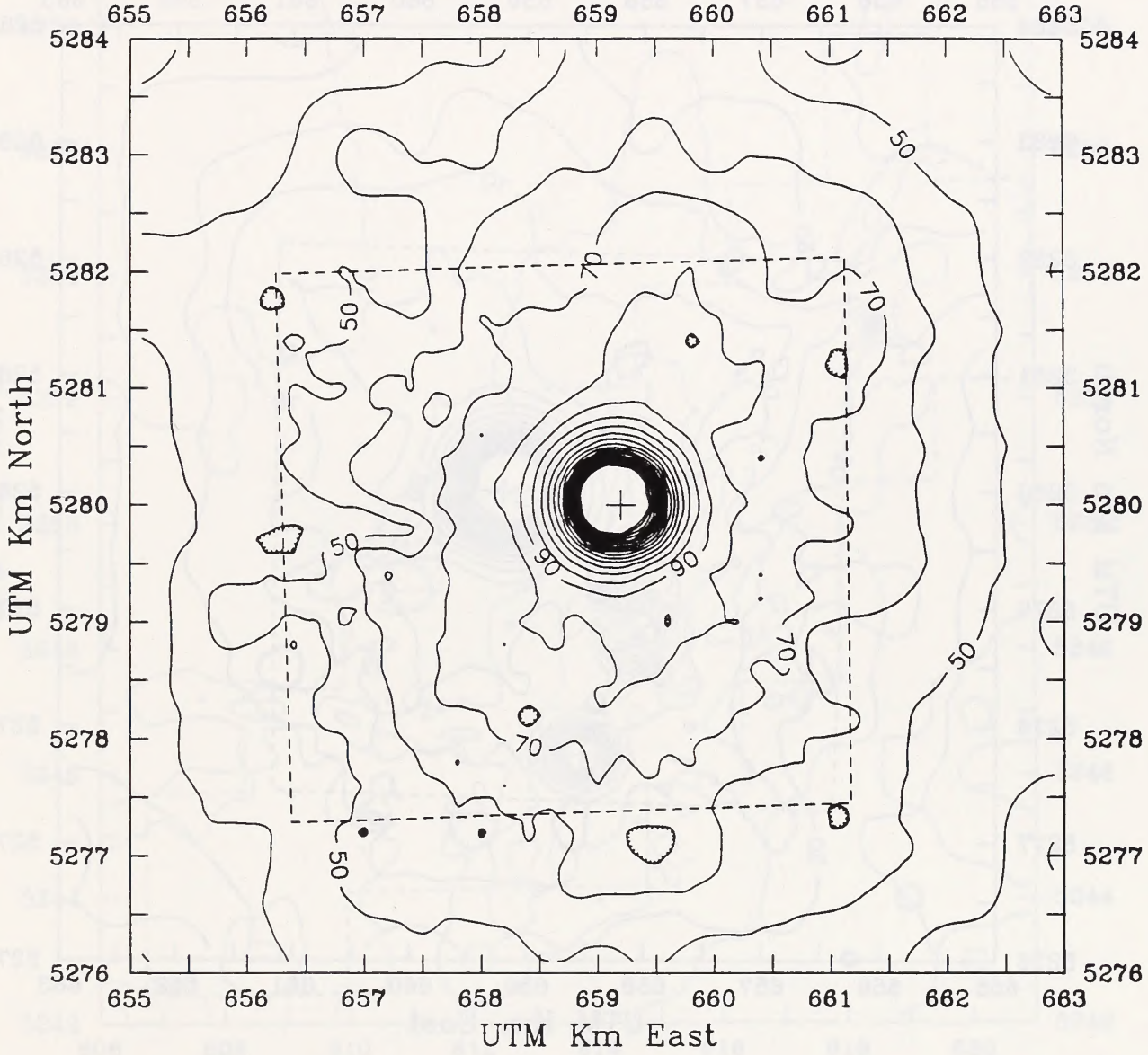
Highest 2nd Highest Concentration (+) = 189
Ambient Air Quality Standard = 70 Contour Interval = 10

Figure D-12
Lone Butte Field - Future Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



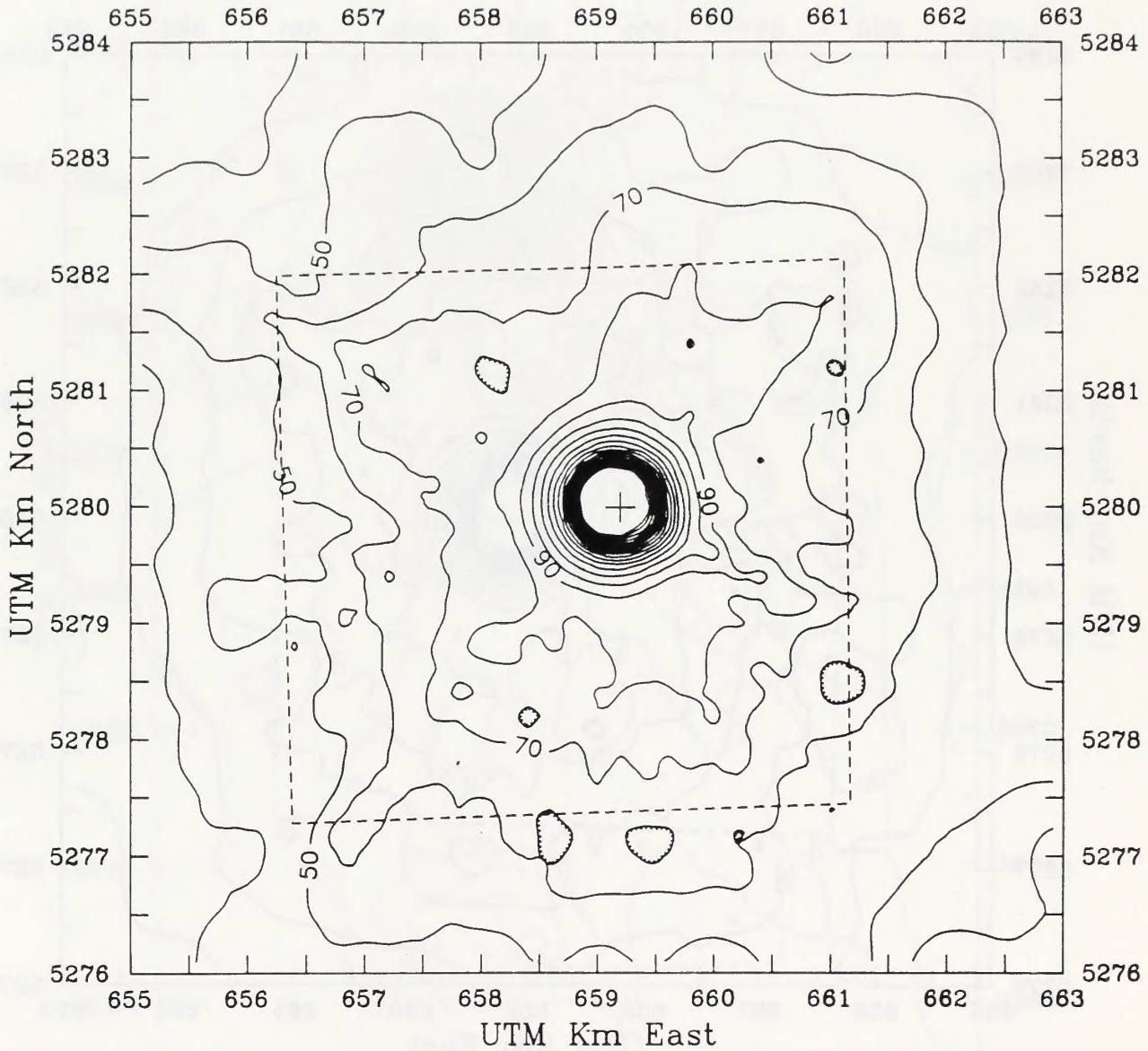
Highest 2nd Highest Concentration (+) = 189
Ambient Air Quality Standard = 70 Contour Interval = 10

Figure D-13
Lost Bridge Field - Existing Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



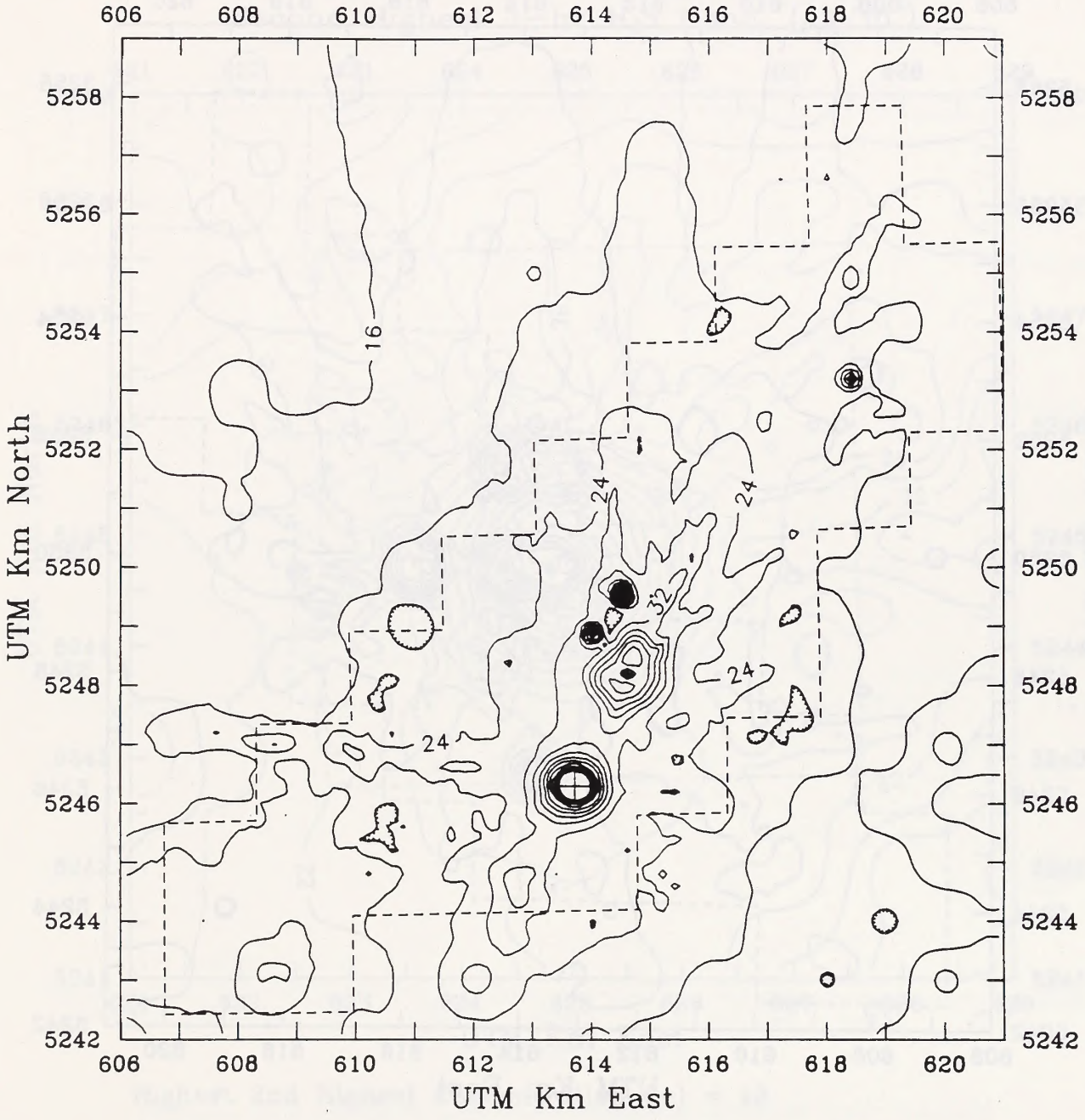
Highest 2nd Highest Concentration (+) = 997
Ambient Air Quality Standard = 70 Contour Interval = 10

Figure D-14
Lost Bridge Field - Future Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



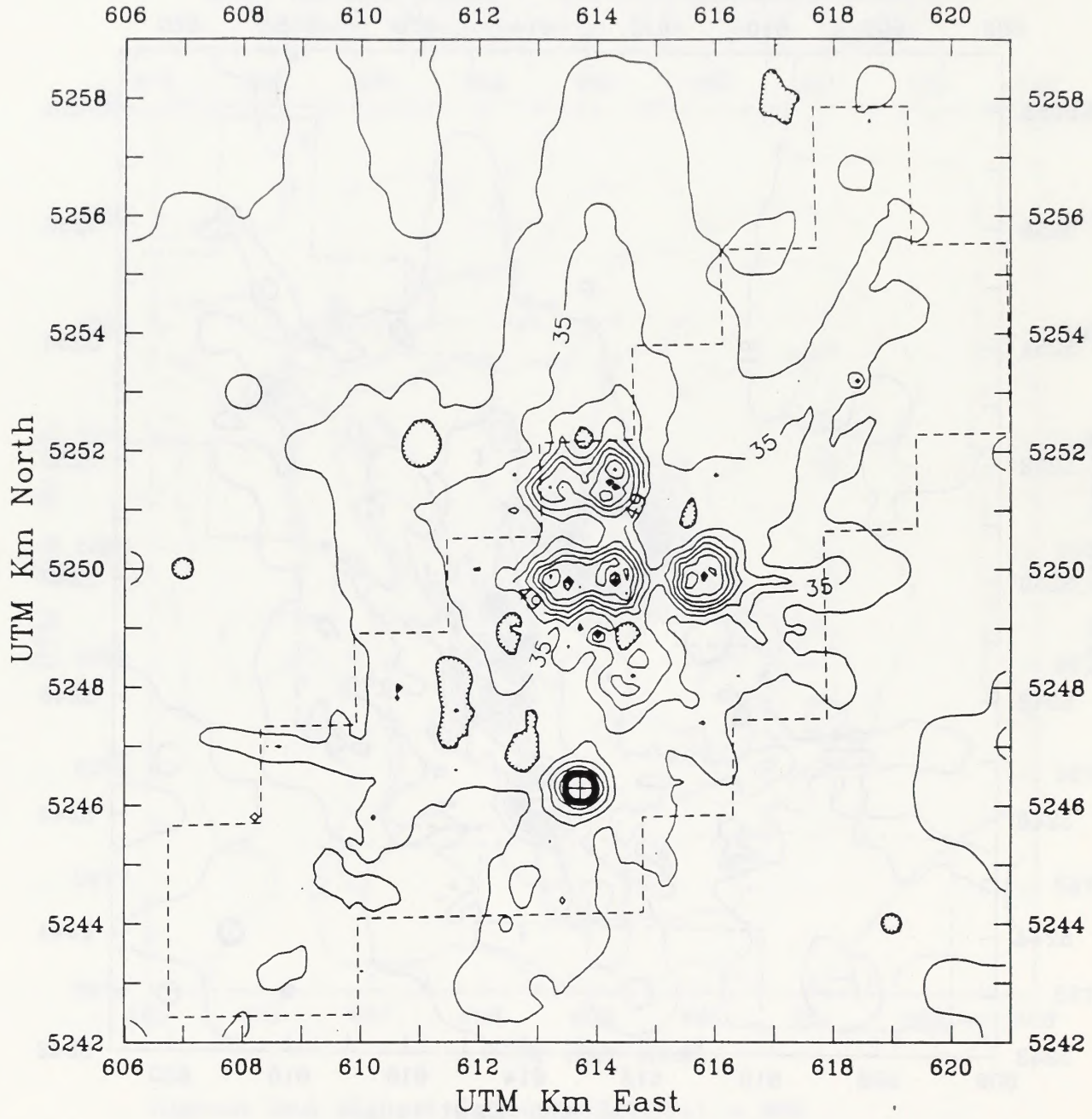
Highest 2nd Highest Concentration (+) = 998
Ambient Air Quality Standard = 70 Contour Interval = 10

Figure D-15
Rough Rider Field – Existing Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



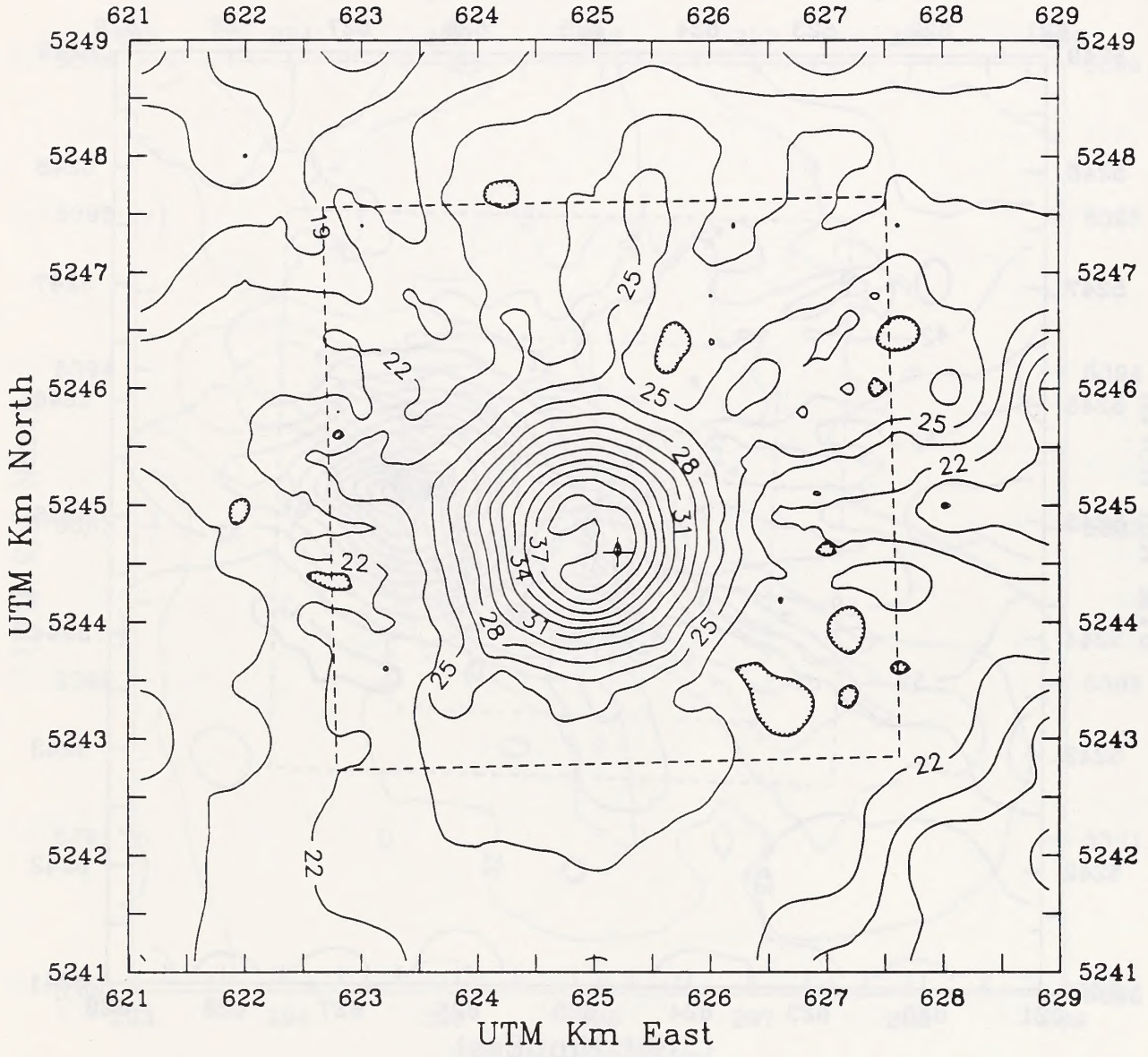
Highest 2nd Highest Concentration (+) = 1273
Ambient Air Quality Standard = 70 Contour Interval = 4

Figure D-16
Rough Rider Field – Future Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



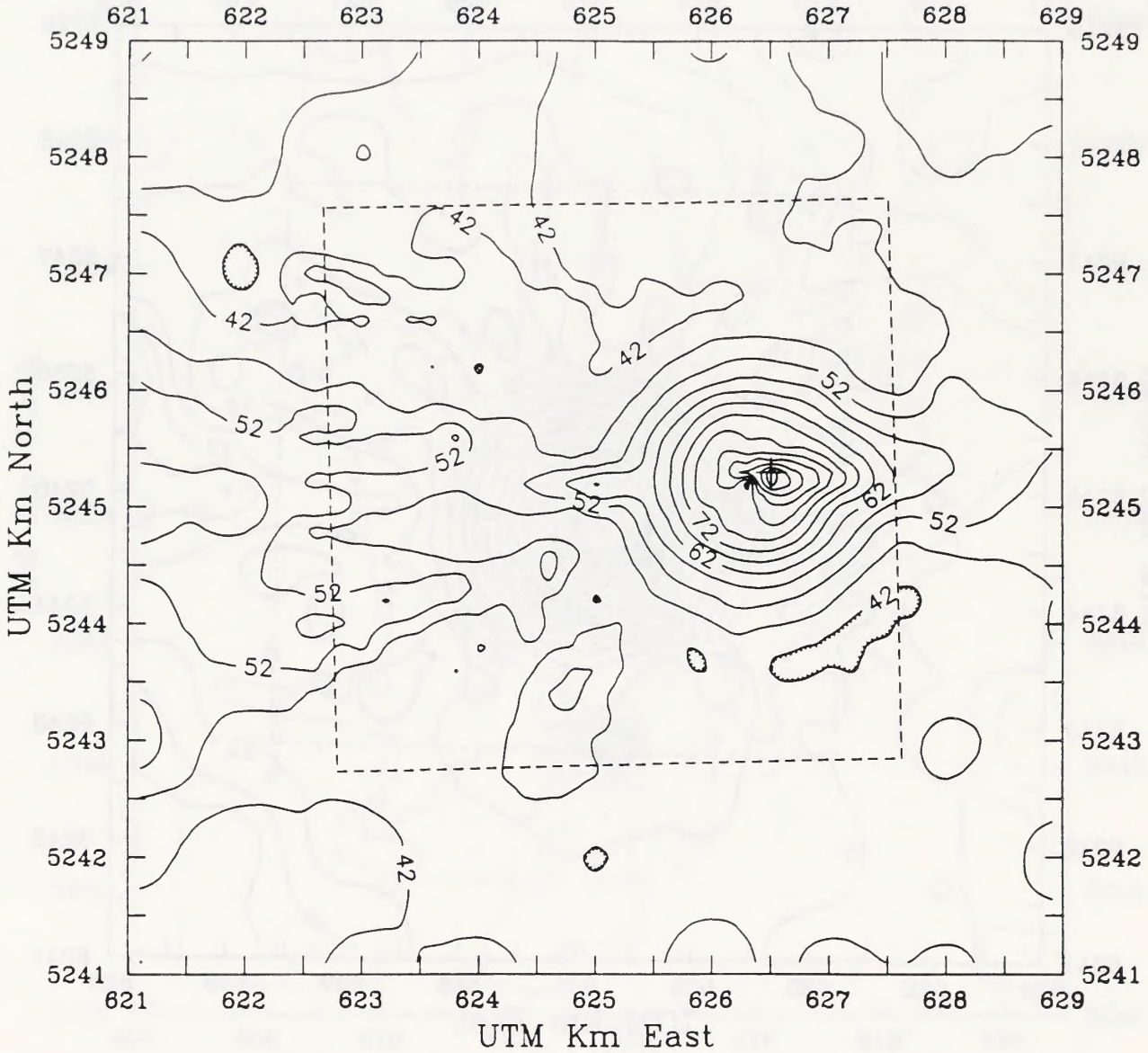
Highest 2nd Highest Concentration (+) = 1273
Ambient Air Quality Standard = 70 Contour Interval = 7

Figure D-17
Scairt Woman Field - Existing Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



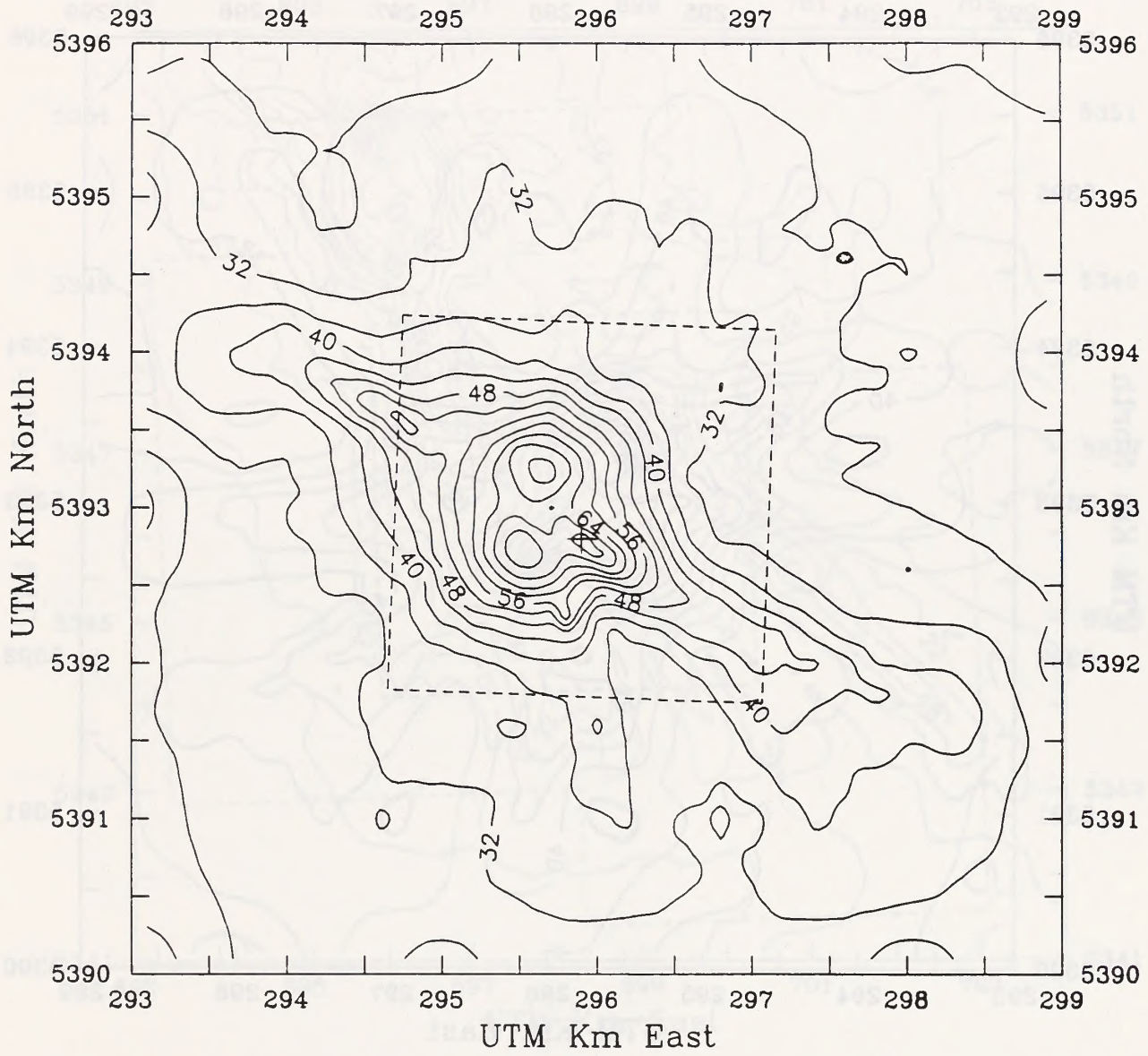
Highest 2nd Highest Concentration (+) = 42
Ambient Air Quality Standard = 70 Contour Interval = 1.5

Figure D-18
Scairt Woman Field - Future Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



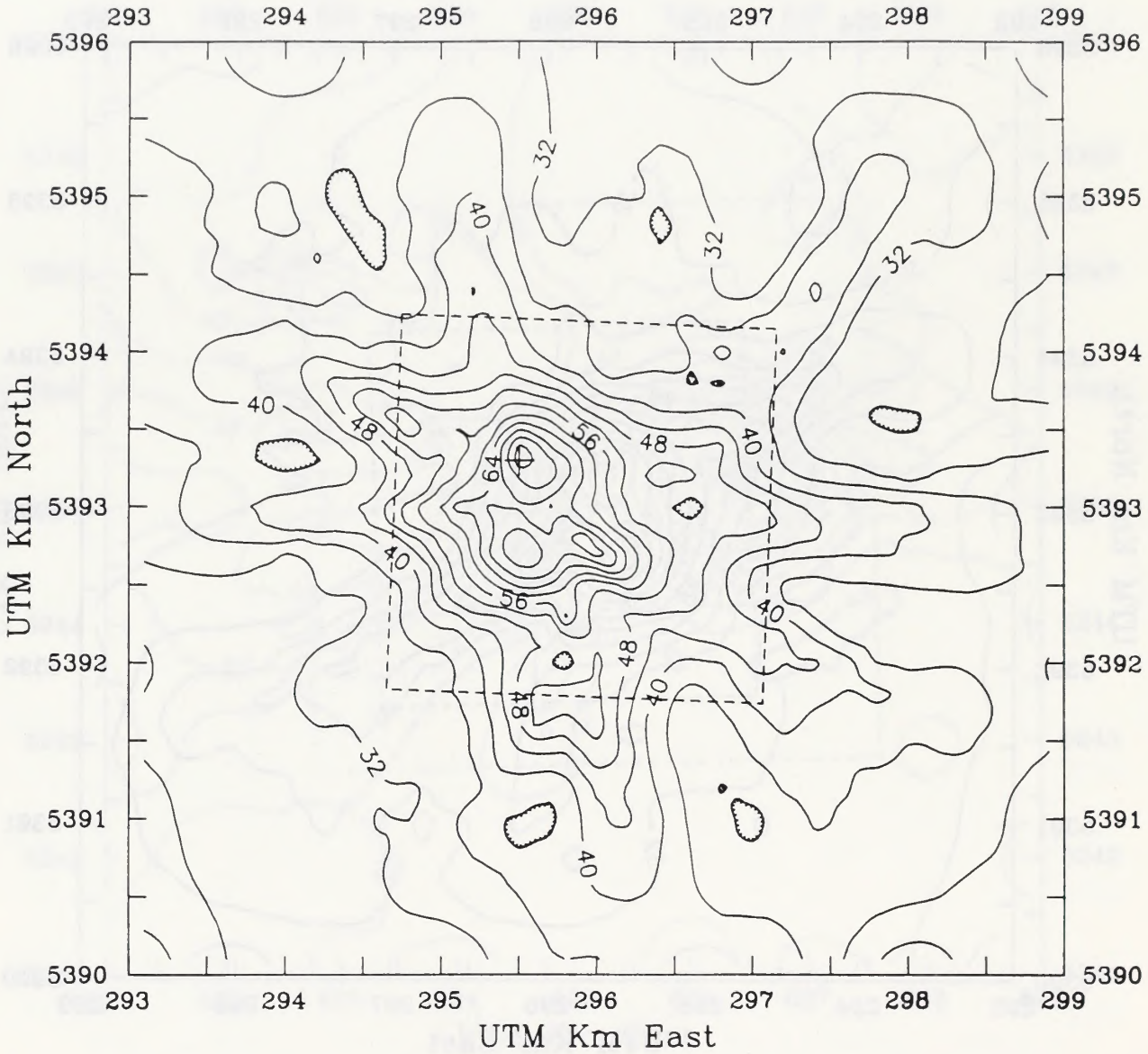
Highest 2nd Highest Concentration (+) = 122
Ambient Air Quality Standard = 70 Contour Interval = 5

Figure D-19
Smith Field - Existing Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



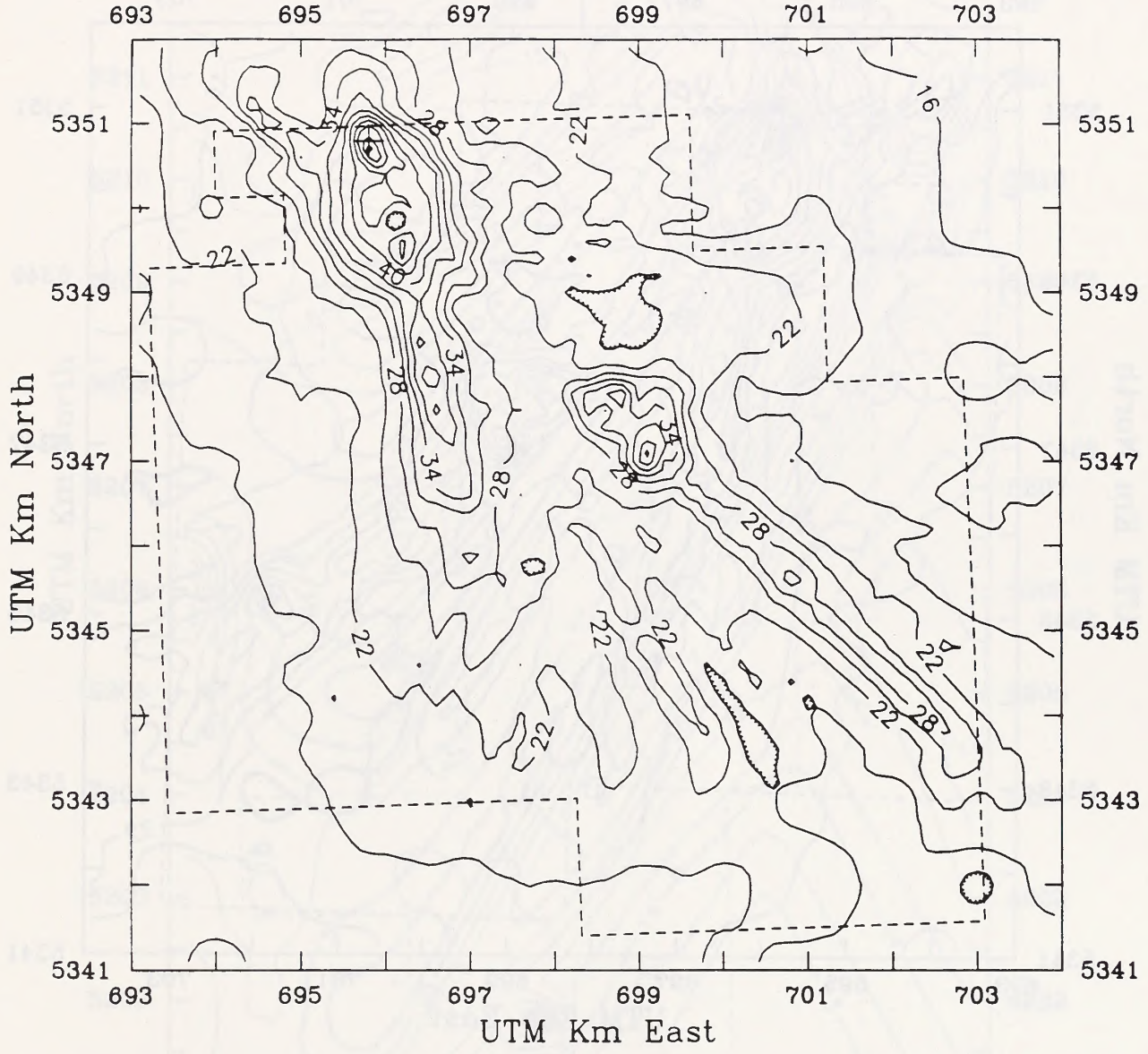
Highest 2nd Highest Concentration (+) = 87
Ambient Air Quality Standard = 70 Contour Interval = 4

Figure D-20
Smith Field - Future Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



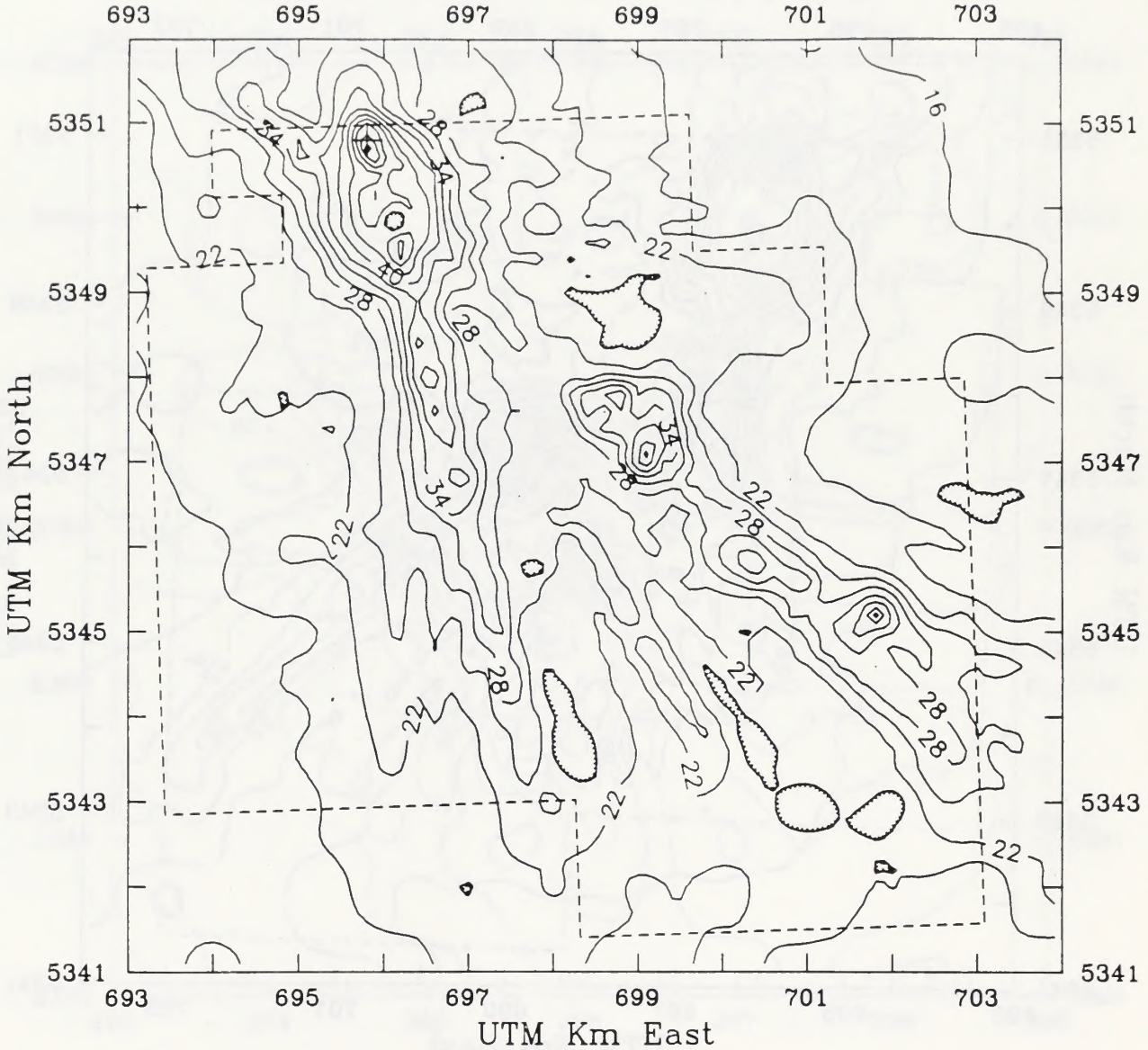
Highest 2nd Highest Concentration (+) = 88
Ambient Air Quality Standard = 70 Contour Interval = 4

Figure D-21
Stanley Field - Existing Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



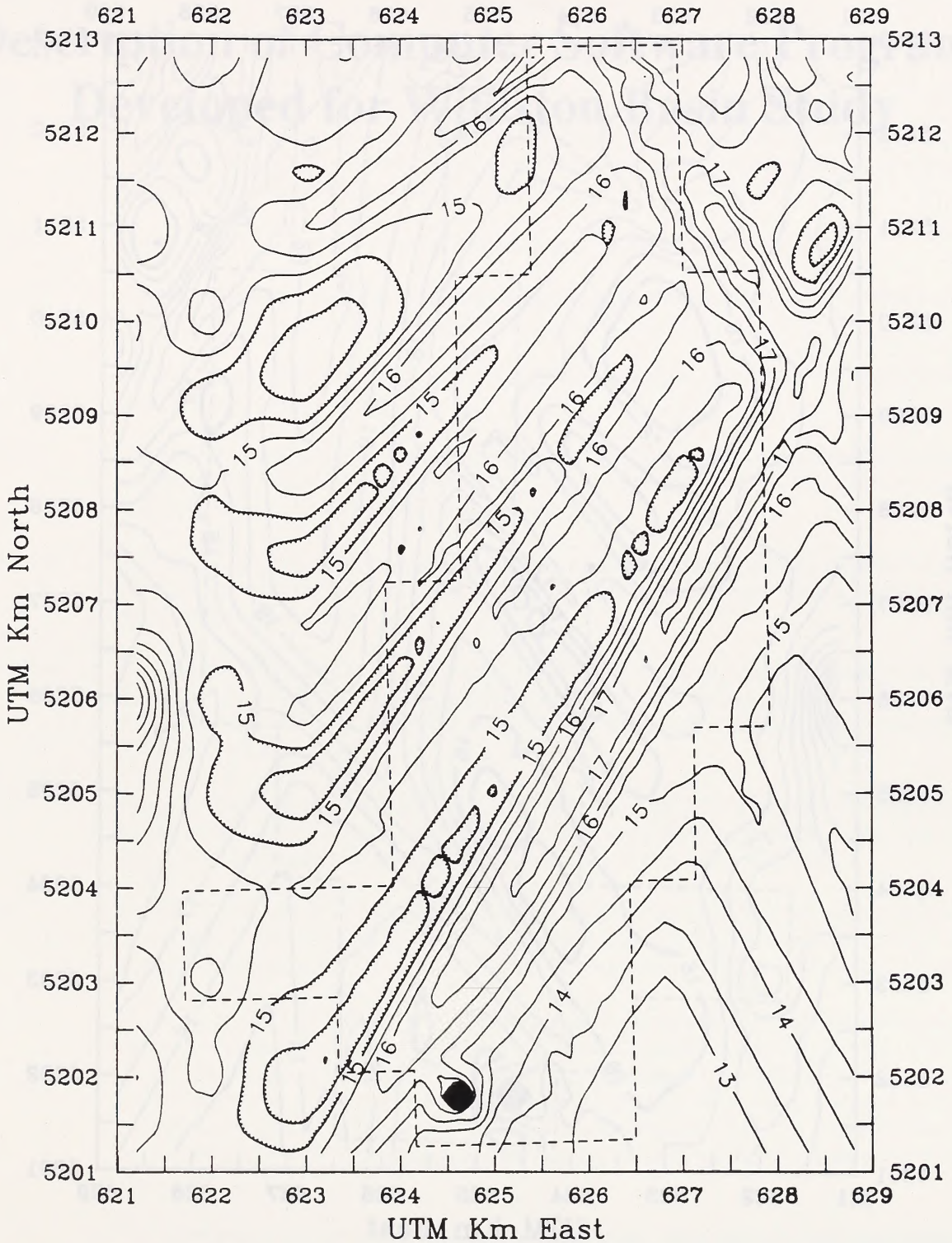
Highest 2nd Highest Concentration (+) = 68
Ambient Air Quality Standard = 70 Contour Interval = 3

Figure D-22
Stanley Field - Future Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



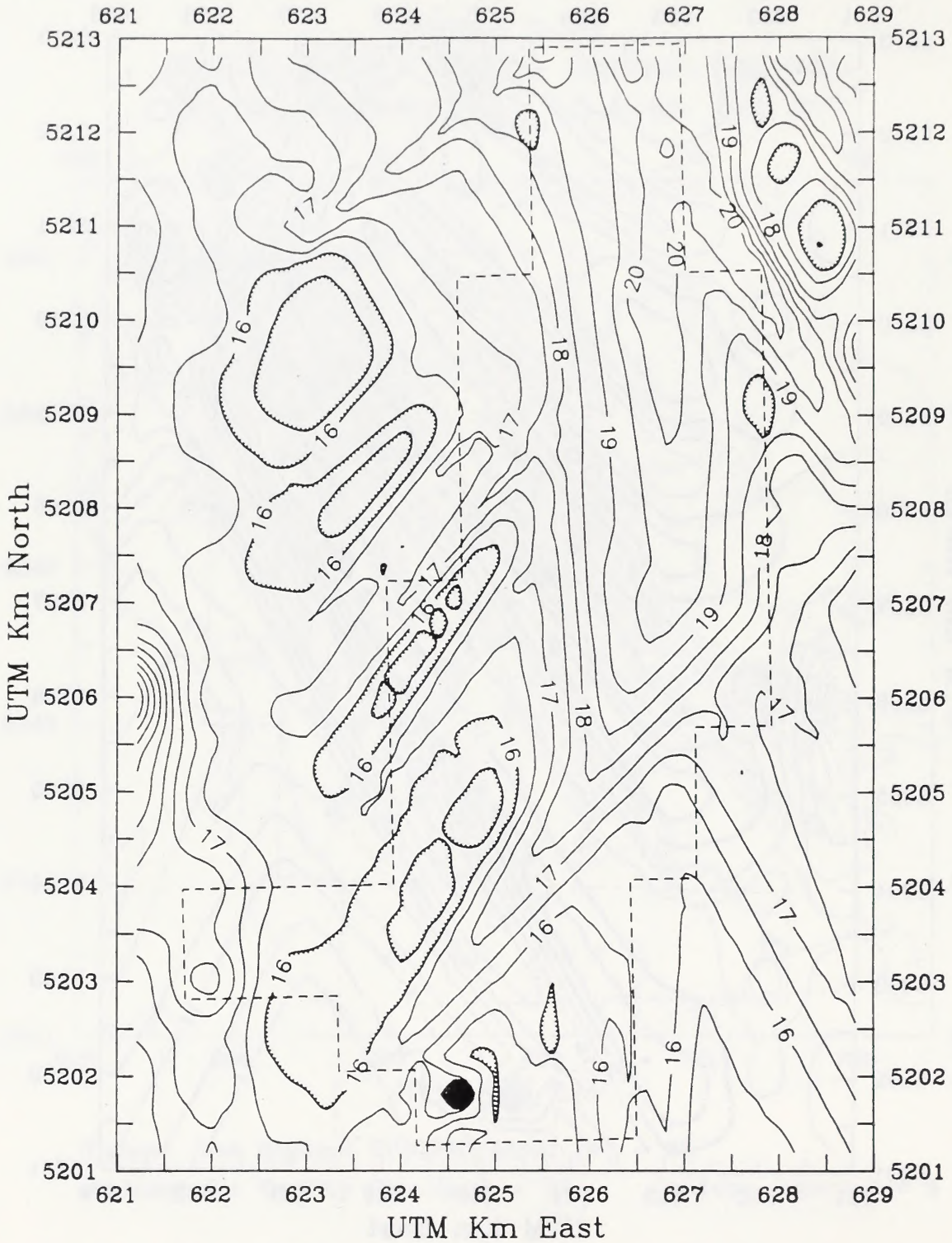
Highest 2nd Highest Concentration (+) = 68
Ambient Air Quality Standard = 70 Contour Interval = 3

Figure D-23
Whiskey Joe Field - Existing Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



Highest 2nd Highest Concentration (+) = 27
Ambient Air Quality Standard = 70 Contour Interval = 0.5

Figure D-24
Whiskey Joe Field – Future Ambient Scenario
Second Highest 1-hr H_2S Conc. ($\mu g/m^3$)



Highest 2nd Highest Concentration (+) = 27
Ambient Air Quality Standard = 70 Contour Interval = 0.5

APPENDIX E

Description of Computer Software Programs Developed for Williston Basin Study

Emissions Inventory Preparation Programs

Program Name	Description
WBSP30	Retrieves inventory data from SIC Oil & Gas Data Base for all wells with total production greater than zero (total for all pools and months considered).
SUMMISS	Computes field/pool average H_2S percentage for each field/pool combination using only data associated with valid testing methods. Substitutes field/pool average H_2S percentage from same or nearby field for wells with missing or invalid H_2S data.
EXCLUDE	Screens out fields in which all wells and pools have H_2S percentages equal to zero.
WBSSUB	Substitutes missing treater/flare location with wellhead location, and missing treater and flare stack heights with 22 ft. and height necessary to meet AAQS, respectively.
UTMPREP	Writes legal locations and footages for wellhead, treater, and flare to a separate file in order to convert legal locations to UTM coordinates.
WBSINV	Derives SO_2 emission rate and heat of combustion from H_2S percentages and gas production data, and determines PSD status from completion dates. All relevant data is output to inventory file in specific inventory format. Also produces inventory printout.
MONTINV	Screens out Montana wells with missing locations or no production, and those located more than 50 km from the centers of the five nearest study fields or PSD Class I areas. Remaining Montana-well data output in same format.
WBSINVM	For Montana wells, derives SO_2 emission rate and heat of combustion from H_2S percentage and gas production data, determines PSD status from completion dates, and assigns treaters and flares stack heights of 22 ft. and 1 ft., respectively. All relevant data output to inventory file in existing-well inventory format.
FUTR0	Derives ratios of lease-use treaters and active flares to the total number of wells (on a pool-specific basis) for each of the 22 fields with future well locations provided by the BLM. Used with number of future wells to determine number of future lease-use treaters and active flares.
FUTR1	Searches existing-well inventory file for field/pool combinations that match the field and pool for each future well. If a match is found, the existing field/pool average SO_2 emission rate and HOC are assigned to the future well. If no match is found, the future well is flagged for later substitution.
FUTR2	If, after execution of FUTR1, future wells remain which do not match the field/pool of any existing well, the existing-well inventory file is searched for wells with an alternate field or pool. If no match is found for the alternate field/pool, the future well is again flagged for a different alternate field/pool and FUTR2 is rerun in an iterative manner until a match is found. When a match is found, the existing field/pool average SO_2 emission rate and HOC are assigned to the future well, treater and flare stack heights are assigned (22 ft. and height to meet AAQS), and data are output to future-well inventory file.
FUTR3	For future wells with both a lease-use treater and active-flare, relocates treater and flare (initially co-located at wellhead position) to be 120 ft. apart on opposite sides of wellhead with a random direction.

Modeling Utility Programs
(Pre-processing, Post-processing)

Program Name	Description
PLOTWELL	For existing wells, screens out non-emitting well facilities and wells located more than 50 km from the center of the specified subject field. Outputs data necessary for plotting existing well locations on a map for use in creating area sources.
PLOTWELF	For future wells, screens out non-emitting well facilities and wells located more than 50 km from the center of the specified subject field. Outputs data necessary for plotting future well locations on a map for use in creating area sources.
POINT	For existing nearby (well facility) point sources, inputs data from inventory file, computes exit velocity from heat of combustion, prepares other necessary ISCST source input parameters, and outputs ISCST source input in required ISCST format.
POINTF	For future nearby (well facility) point sources, inputs data from inventory file, computes exit velocity from heat of combustion, prepares other necessary ISCST source input parameters, and outputs ISCST source input in required ISCST format.
AREA	For existing nearby (well facility) area sources, inputs data from inventory file, computes SO_2 emission rate per unit area, computes effective release height from area-averaged stack height and HOC, prepares other necessary ISCST source input parameters, and outputs ISCST source input in required ISCST format.
AREAF	For future nearby (well facility) area sources, inputs data from inventory file, computes SO_2 emission rate per unit area, computes effective release height from area-averaged stack height and HOC, prepares other necessary ISCST source input parameters and outputs ISCST source input in required ISCST format.
FIELD	For study-field (well facility) sources, derives location and stack height from on-site oil-field data, computes exit velocity from HOC in inventory file, prepares other necessary ISCST source input parameters, and outputs ISCST source input in required ISCST format.
PSDPTIN	Screens out all non-PSD-increment-consuming wells and outputs the well numbers of all emitting, PSD-increment-consuming wells within 50 km of the center of a specified Class I area. Used with POINT to prepare Class I source input.
WBSADD	Adds 3-hour SO_2 concentrations from ISCST and MSPUFF 3-hour output files for each corresponding receptor and 3-hour period, producing combined 3-hour output file.
WBSANAL	From combined 3-hour output file generated by WBSADD, computes 24-hour and annual average concentrations for each receptor and time block and prints out summary of highest concentrations for each averaging period.

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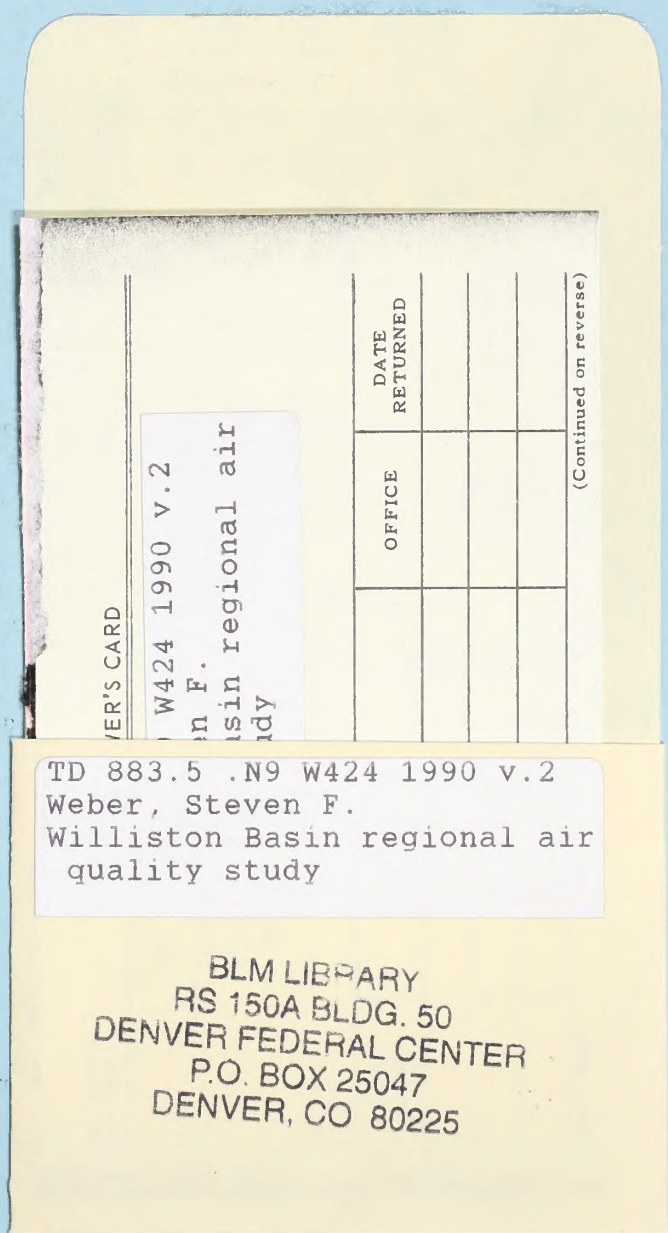

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